

# GOMOS Daily Report 03-JAN-2006

## Level 0 and Level 1 products

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### 1. General Info

This report presents the daily analysis on parameters extracted from GOMOS level 1b data (GOM\_TRA\_1P). It is intended to monitor some important parameters that will impact the quality of the level 2 products as the Spectrometers and Photometers CCD Temperatures and Dark Charge, SATU noise equivalent angle... A list of level 0 products (and content) that have arrived during the actual month to the PCF is also given.

Item	Value
Time of report generation	11JAN2006 11:41:14

Data source version	GOMOS/4.02
Start time of products	03-01-2006 (03JAN2006 00:00:00)
Stop time of products	04-01-2006 (04JAN2006 00:00:00)
Store outputs in DB	Yes
Nb of level 1b prods	50
Nb of prods with errors	0

## 2. Summary of products arrived in PCF (Product Control Facility)

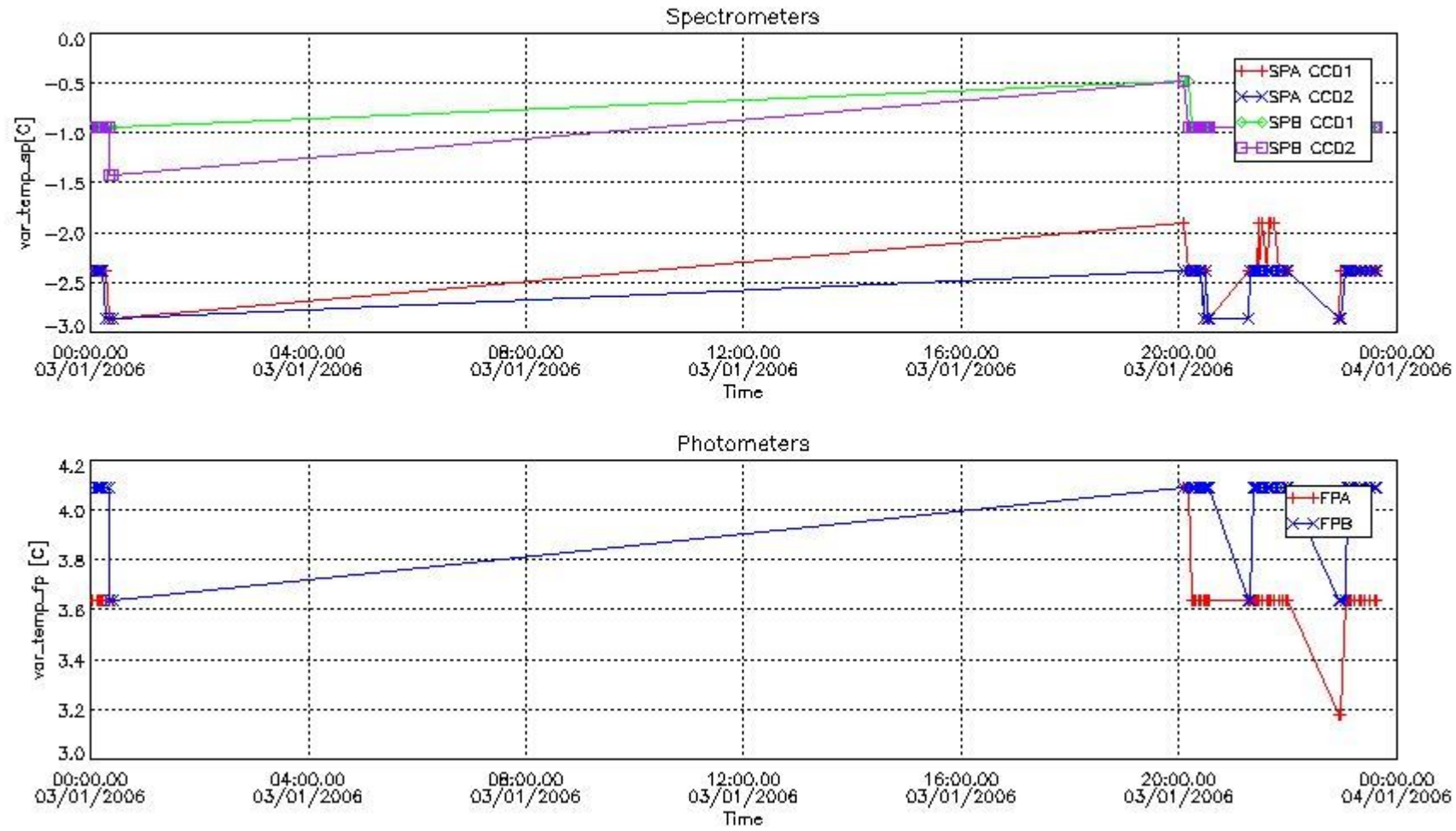
### 2.1 Level 0 products arrived in PCF (see template [here](#))

### 2.2 Summary of processed GOM\_TRA\_1P products

Nr	Filename	UTC Start time	Limb	Duration	Star Id	Star Name	Star Mag	Star Temp	Nb Meas	Orbit	Prod. error
1	GOM_TRA_1PNPDE20060103_000212_000000392044_00002_20096_0010.N1	03-JAN-2006 00:02:12	Dark	38.500	108	Alp Col	2.6520	15200.	77	20096	No
2	GOM_TRA_1PNPDE20060103_000648_000000422044_00002_20096_0011.N1	03-JAN-2006 00:06:48	Twilight	41.500	101	11Alp Lep	2.5820	7000.0	83	20096	No
3	GOM_TRA_1PNPDE20060103_000939_000000512044_00002_20096_0012.N1	03-JAN-2006 00:09:39	Bright	50.500	7	19Bet Ori	0.10000	14000.	101	20096	No
4	GOM_TRA_1PNPDE20060103_001129_000000412044_00002_20096_0013.N1	03-JAN-2006 00:11:29	Bright	41.000	30	46Eps Ori	1.6940	30000.	82	20096	No
5	GOM_TRA_1PNPDE20060103_001341_000000442044_00002_20096_0014.N1	03-JAN-2006 00:13:41	Bright	43.500	27	24Gam Ori	1.6360	26000.	87	20096	No
6	GOM_TRA_1PNPDE20060103_001652_000000482044_00002_20096_0015.N1	03-JAN-2006 00:16:52	Bright	48.000	13	87Alp Tau	0.86700	3800.0	96	20096	No
7	GOM_TRA_1PNPDE20060103_002001_000000382044_00002_20096_0016.N1	03-JAN-2006 00:20:01	Bright	38.000	28	12Bet Tau	1.6500	15200.	76	20096	No
8	GOM_TRA_1PNPDE20060103_002119_000000382044_00002_20096_0017.N1	03-JAN-2006 00:21:19	Bright	37.500	114	3Iot Aur	2.6930	4600.0	75	20096	No
9	GOM_TRA_1PNPDE20060103_002345_000000352044_00002_20096_0018.N1	03-JAN-2006 00:23:45	Bright	34.500	149	45Eps Per	2.8880	30000.	69	20096	No
10	GOM_TRA_1PNPDE20060103_200346_000000442044_00014_20108_0000.N1	03-JAN-2006 20:03:46	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	20108	No
11	GOM_TRA_1PNPDE20060103_200926_000000382044_00014_20108_0001.N1	03-JAN-2006 20:09:26	Dark	38.000	108	Alp Col	2.6520	15200.	76	20108	No
12	GOM_TRA_1PNPDE20060103_201401_000000402044_00014_20108_0002.N1	03-JAN-2006 20:14:01	Twilight	40.000	101	11Alp Lep	2.5820	7000.0	80	20108	No
13	GOM_TRA_1PNPDE20060103_201652_000000442044_00014_20108_0003.N1	03-JAN-2006 20:16:52	Bright	43.500	7	19Bet Ori	0.10000	14000.	87	20108	No
14	GOM_TRA_1PNPDE20060103_201841_000000422044_00014_20108_0004.N1	03-JAN-2006 20:18:41	Bright	41.500	30	46Eps Ori	1.6940	30000.	83	20108	No
15	GOM_TRA_1PNPDE20060103_202053_000000432044_00014_20108_0005.N1	03-JAN-2006 20:20:53	Bright	43.000	27	24Gam Ori	1.6360	26000.	86	20108	No
16	GOM_TRA_1PNPDE20060103_202405_000000452044_00014_20108_0006.N1	03-JAN-2006 20:24:05	Bright	44.500	13	87Alp Tau	0.86700	3800.0	89	20108	No
17	GOM_TRA_1PNPDE20060103_202712_000000362044_00014_20108_0007.N1	03-JAN-2006 20:27:12	Bright	36.000	28	12Bet Tau	1.6500	15200.	72	20108	No
18	GOM_TRA_1PNPDE20060103_202831_000000362044_00014_20108_0008.N1	03-JAN-2006 20:28:31	Bright	36.000	114	3Iot Aur	2.6930	4600.0	72	20108	No
19	GOM_TRA_1PNPDE20060103_203059_000000352044_00014_20108_0009.N1	03-JAN-2006 20:30:59	Bright	34.500	149	45Eps Per	2.8880	30000.	69	20108	No
20	GOM_TRA_1PNPDE20060103_203317_000000342044_00014_20108_0010.N1	03-JAN-2006 20:33:17	Bright	34.000	175	39Del Per	3.0100	19400.	68	20108	No
21	GOM_TRA_1PNPDE20060103_211550_000000522044_00014_20108_0000.N1	03-JAN-2006 21:15:50	Twilight	52.000	97	8Bet1Sco	2.5610	30000.	104	20108	No
22	GOM_TRA_1PNPDE20060103_211740_000000382044_00014_20108_0001.N1	03-JAN-2006 21:17:40	Twilight	38.000	158	6Pi Sco	2.9060	28000.	76	20108	No
23	GOM_TRA_1PNPDE20060103_212207_000000372044_00014_20108_0002.N1	03-JAN-2006 21:22:07	Twilight	36.500	131	Gam Lup	2.8000	26000.	73	20108	No
24	GOM_TRA_1PNPDE20060103_212331_000000372044_00014_20108_0003.N1	03-JAN-2006 21:23:31	Twilight	36.500	109	Bet Lup	2.6770	26000.	73	20108	No
25	GOM_TRA_1PNPDE20060103_212500_000000372044_00014_20108_0004.N1	03-JAN-2006 21:25:00	Dark	37.000	78	Alp Lup	2.3040	28000.	74	20108	No
26	GOM_TRA_1PNPDE20060103_212635_000000112044_00014_20108_0005.N1	03-JAN-2006 21:26:35	Dark	11.000	95	Zet Cen	2.5450	26000.	22	20108	No
27	GOM_TRA_1PNPDE20060103_212805_000000412044_00015_20109_0006.N1	03-JAN-2006 21:28:05	Dark	40.500	4	Alp1Cen	-0.010000	5800.0	81	20109	No
28	GOM_TRA_1PNPDE20060103_213204_000000422044_00015_20109_0007.N1	03-JAN-2006 21:32:04	Dark	41.500	12	Alp1Cru	0.77500	30000.	83	20109	No
29	GOM_TRA_1PNPDE20060103_213715_000000382044_00015_20109_0008.N1	03-JAN-2006 21:37:15	Dark	37.500	29	Bet Car	1.6720	10200.	75	20109	No
30	GOM_TRA_1PNPDE20060103_213845_000000432044_00015_20109_0009.N1	03-JAN-2006 21:38:45	Dark	43.000	71	Iot Car	2.2460	7700.0	86	20109	No
31	GOM_TRA_1PNPDE20060103_214016_000000392044_00015_20109_0010.N1	03-JAN-2006 21:40:16	Dark	39.000	41	Eps Car	1.8600	4100.0	78	20109	No
32	GOM_TRA_1PNPDE20060103_214422_000000522044_00015_20109_0011.N1	03-JAN-2006 21:44:22	Dark	52.000	2	Alp Car	-0.73600	7000.0	104	20109	No
33	GOM_TRA_1PNPDE20060103_215002_000000392044_00015_20109_0012.N1	03-JAN-2006 21:50:02	Dark	39.000	108	Alp Col	2.6520	15200.	78	20109	No
34	GOM_TRA_1PNPDE20060103_215437_000000402044_00015_20109_0013.N1	03-JAN-2006 21:54:37	Twilight	39.500	101	11Alp Lep	2.5820	7000.0	79	20109	No
35	GOM_TRA_1PNPDE20060103_215728_000000422044_00015_20109_0014.N1	03-JAN-2006 21:57:28	Bright	41.500	7	19Bet Ori	0.10000	14000.	83	20109	No
36	GOM_TRA_1PNPDE20060103_215917_000000442044_00015_20109_0015.N1	03-JAN-2006 21:59:17	Bright	43.500	30	46Eps Ori	1.6940	30000.	87	20109	No
37	GOM_TRA_1PNPDE20060103_225627_000000522044_00015_20109_0000.N1	03-JAN-2006 22:56:27	Twilight	52.000	97	8Bet1Sco	2.5610	30000.	104	20109	No
38	GOM_TRA_1PNPDE20060103_225816_000000402044_00015_20109_0001.N1	03-JAN-2006 22:58:16	Twilight	40.000	158	6Pi Sco	2.9060	28000.	80	20109	No
39	GOM_TRA_1PNPDE20060103_230407_000000372044_00015_20109_0002.N1	03-JAN-2006 23:04:07	Twilight	37.000	109	Bet Lup	2.6770	26000.	74	20109	No
40	GOM_TRA_1PNPDE20060103_230536_000000392044_00015_20109_0003.N1	03-JAN-2006 23:05:36	Dark	38.500	78	Alp Lup	2.3040	28000.	77	20109	No
41	GOM_TRA_1PNPDE20060103_230712_000000112044_00015_20109_0004.N1	03-JAN-2006 23:07:12	Dark	11.000	95	Zet Cen	2.5450	26000.	22	20109	No
42	GOM_TRA_1PNPDE20060103_230842_000000532044_00016_20110_0005.N1	03-JAN-2006 23:08:42	Dark	53.000	4	Alp1Cen	-0.010000	5800.0	106	20110	No
43	GOM_TRA_1PNPDE20060103_231240_000000402044_00016_20110_0006.N1	03-JAN-2006 23:12:40	Dark	39.500	12	Alp1Cru	0.77500	30000.	79	20110	No
44	GOM_TRA_1PNPDE20060103_231751_000000382044_00016_20110_0007.N1	03-JAN-2006 23:17:51	Dark	37.500	29	Bet Car	1.6720	10200.	75	20110	No
45	GOM_TRA_1PNPDE20060103_231922_000000432044_00016_20110_0008.N1	03-JAN-2006 23:19:22	Dark	43.000	71	Iot Car	2.2460	7700.0	86	20110	No
46	GOM_TRA_1PNPDE20060103_232053_000000502044_00016_20110_0009.N1	03-JAN-2006 23:20:53	Dark	50.000	41	Eps Car	1.8600	4100.0	100	20110	No

47	GOM_TRA_1PNPDE20060103_232458_000000442044_00016_20110_0010.N1	03-JAN-2006 23:24:58	Dark	44.000	2	Alp Car	-0.73600	7000.0	88	20110	No
48	GOM_TRA_1PNPDE20060103_233037_000000402044_00016_20110_0011.N1	03-JAN-2006 23:30:37	Dark	40.000	108	Alp Col	2.6520	15200.	80	20110	No
49	GOM_TRA_1PNPDE20060103_233513_000000422044_00016_20110_0012.N1	03-JAN-2006 23:35:13	Twilight	41.500	101	11Alp Lep	2.5820	7000.0	83	20110	No
50	GOM_TRA_1PNPDE20060103_233804_000000452044_00016_20110_0013.N1	03-JAN-2006 23:38:04	Bright	44.500	7	19Bet Ori	0.10000	14000.	89	20110	No

### 3. Plot of GOMOS spectrometers and photometers temperatures from level 1b data



### 4. Overview of dark signal processing per product

The Dark Charge (DC) is a temperature-dependant signal added to the useful measurements and it is therefore subtracted from them during the processing. There are two phenomena that produce a continuous increase of the DC: the "hot pixels" (a pixel is "hot" when its DC exceeds by a significant amount its value measured on ground at the same temperature) and the "Random Telegraphic Signal" (abrupt change positive or negative of the CCD pixel signal, random in time, affecting only the DC part of the signal and not the photon generated signal).

In this section a list of products that did not use the Dark Sky Area (DSA) observation for the DC computation is given. It is also provided the mean DC plot per product for dark limb products with no error flag set.

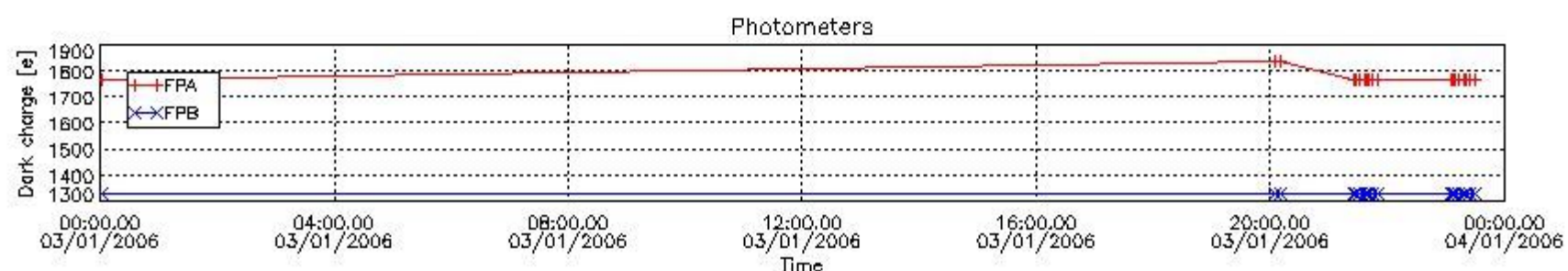
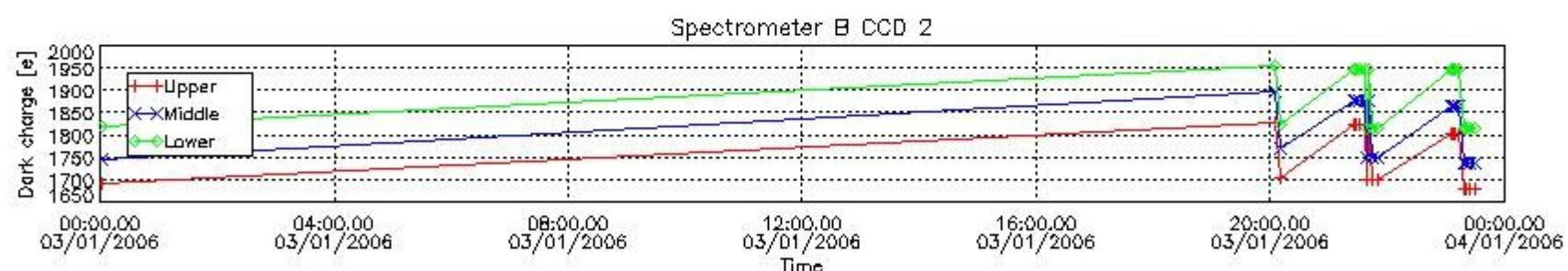
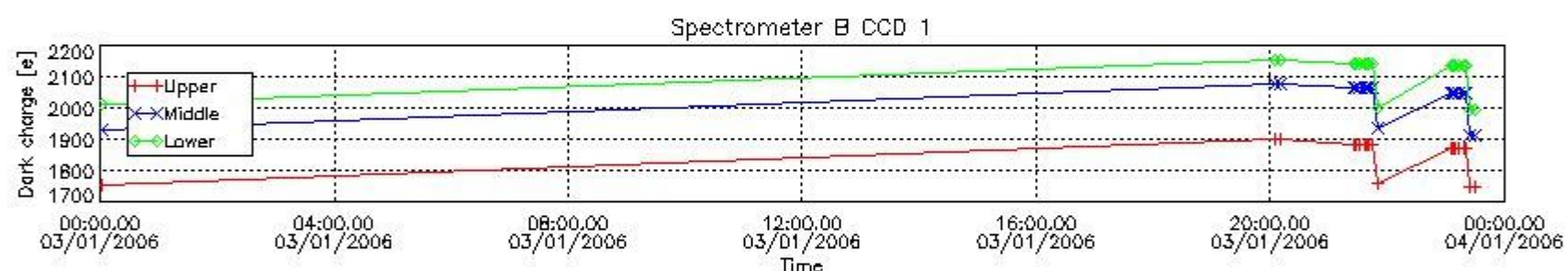
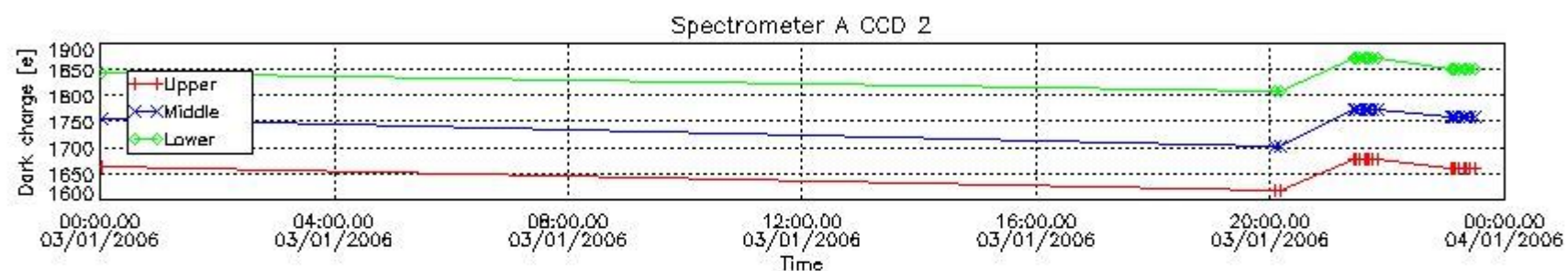
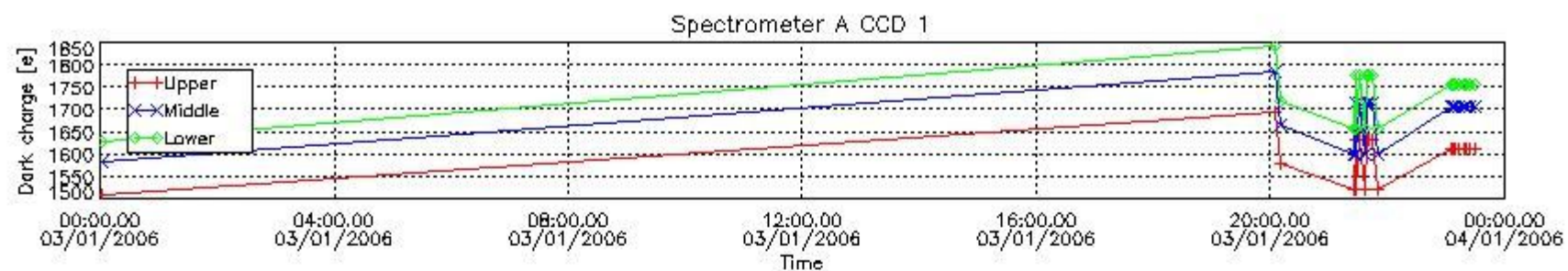
#### 4.1 These products did not use the DSA observation for DC computation:

Product name	DC information
GOM_TRA_1PNPDE20060103_200346_000000442044_00014_20108_0000.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_200926_000000382044_00014_20108_0001.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_201401_000000402044_00014_20108_0002.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_201652_000000442044_00014_20108_0003.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_201841_000000422044_00014_20108_0004.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_202053_000000432044_00014_20108_0005.N1	DC map used (0)



GOM_TRA_1PNPDE20060103_202405_000000452044_00014_20108_0006.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_202712_000000362044_00014_20108_0007.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_202831_000000362044_00014_20108_0008.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_203059_000000352044_00014_20108_0009.N1	DC map used (0)
GOM_TRA_1PNPDE20060103_203317_000000342044_00014_20108_0010.N1	DC map used (0)

4.2 Plot of mean dark charges per product: only products in DARK limb conditions without errors are used

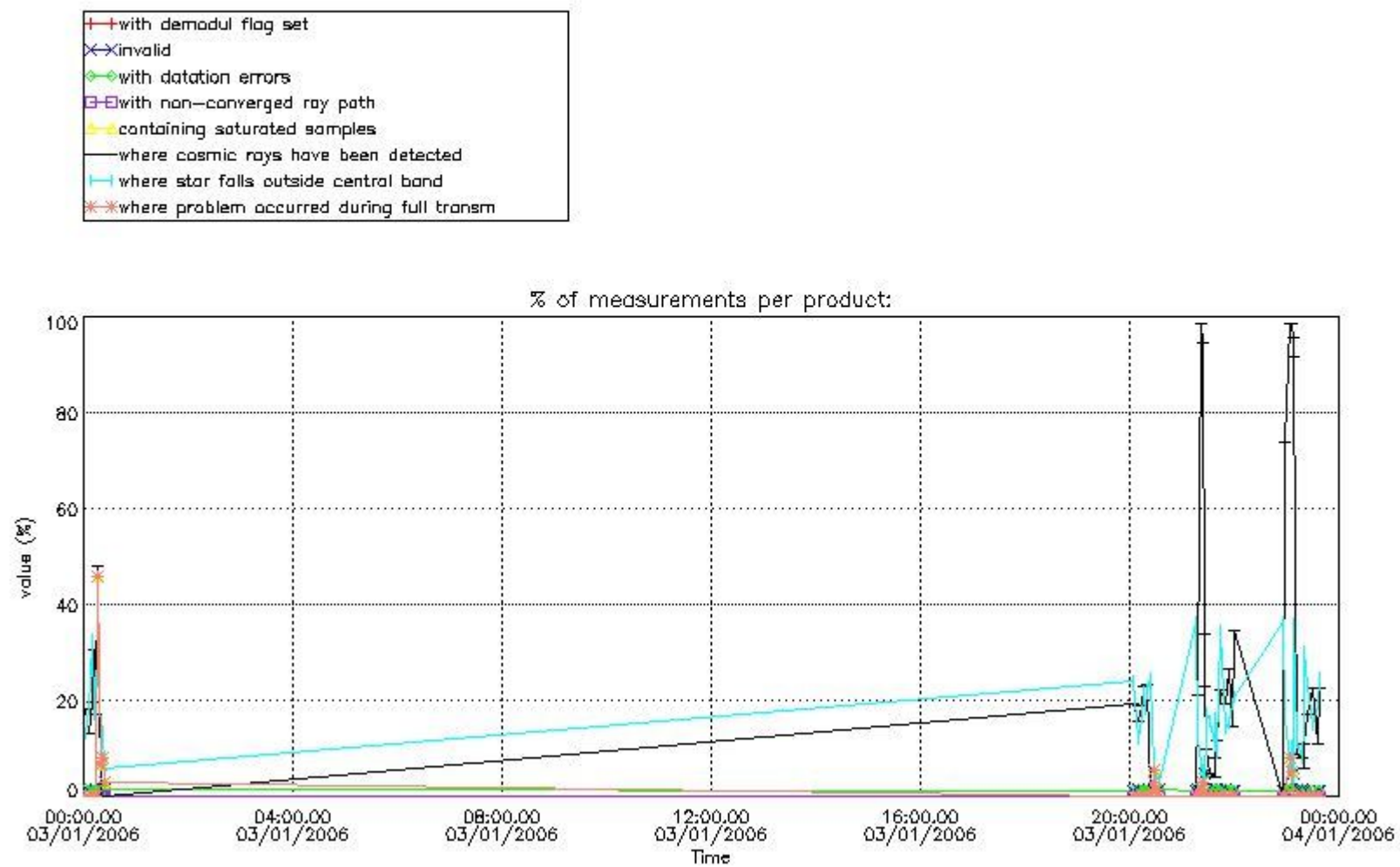


In this section it is presented the modulation information extracted from the pcd (product confidence data) at measurement level and information extracted from the Quality Summary dataset. Only products without errors (error flag in the MPH set to "0") are used.

### 5.1 Percentage of products during reporting period with:

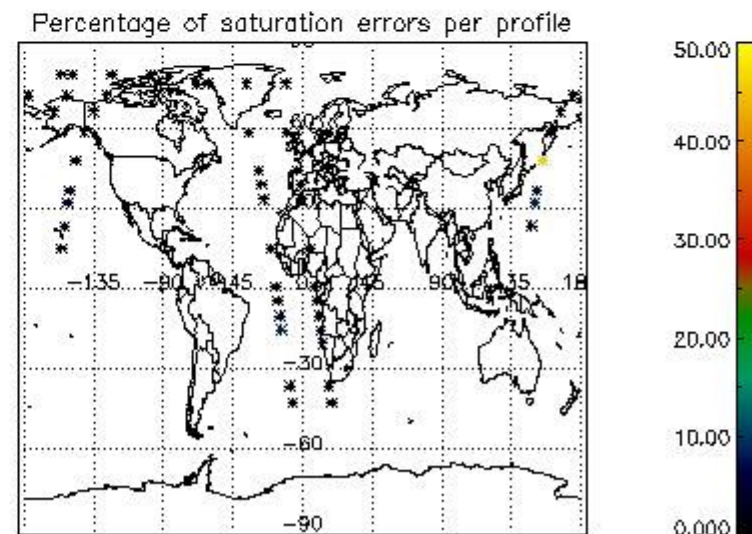
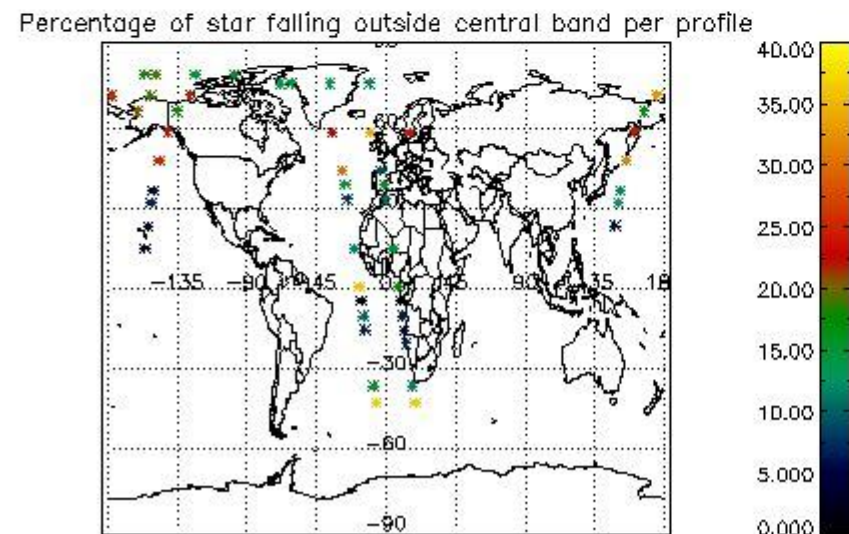
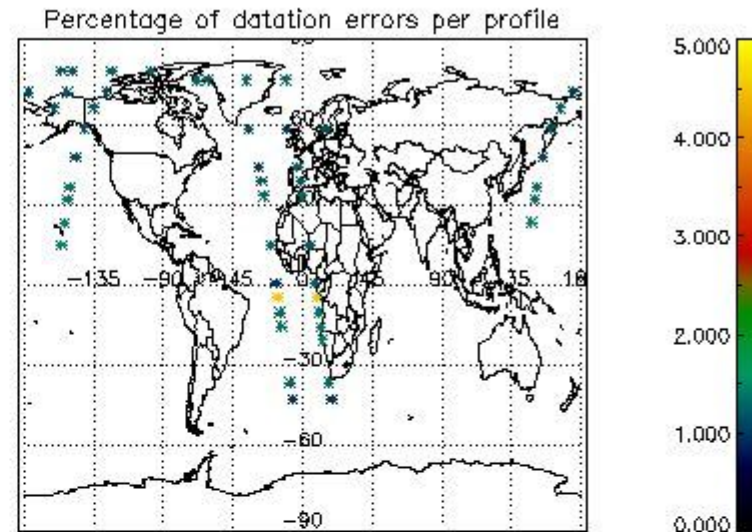
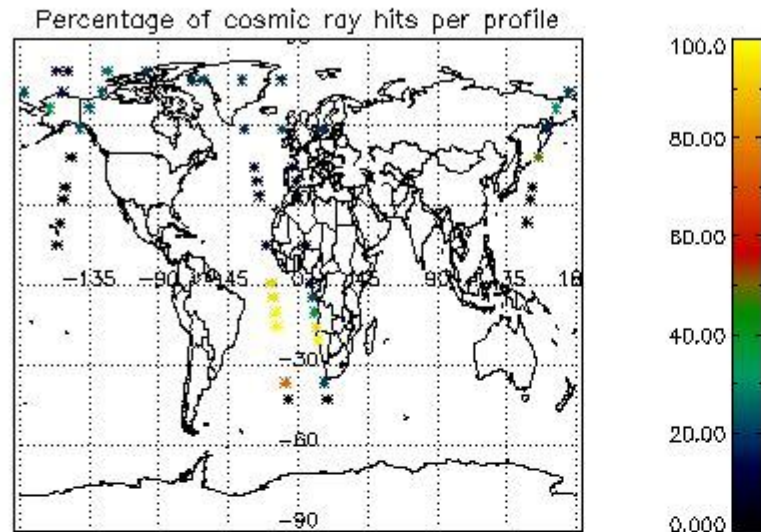
At least one measurement with demodulation flag set:	18.0000 %
Reference spectrum computed from DB:	0.00000 %
Reference spectrum with small number of measurements:	0.00000 %
SATU data not used:	0.00000 %

### 5.2 Plot quality information per product (time dependant)



### 5.3 Plot quality information per product (world map)





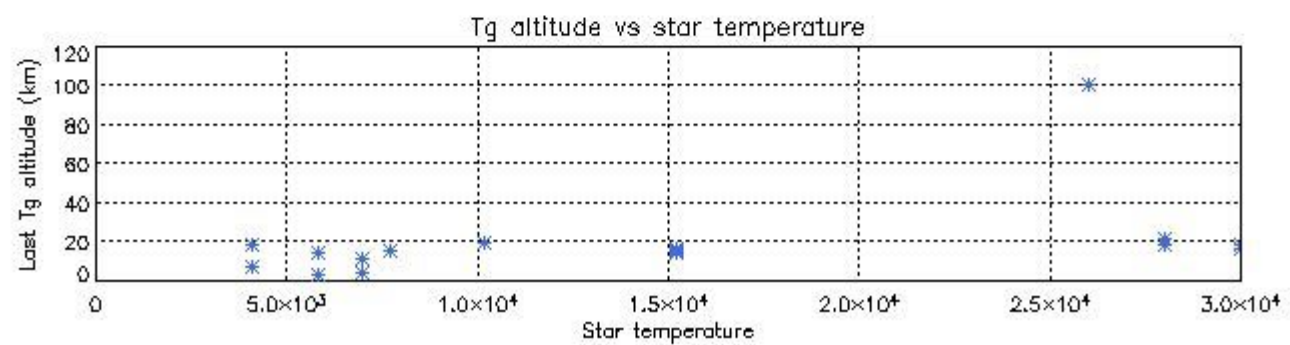
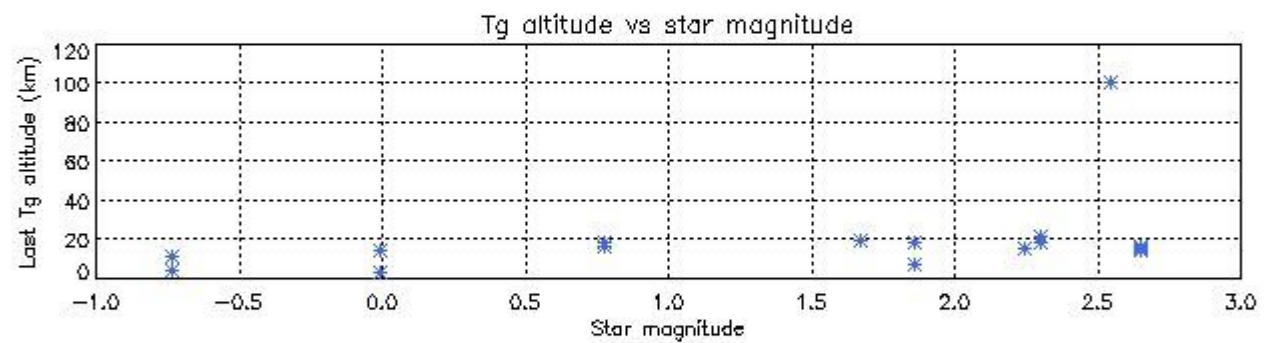
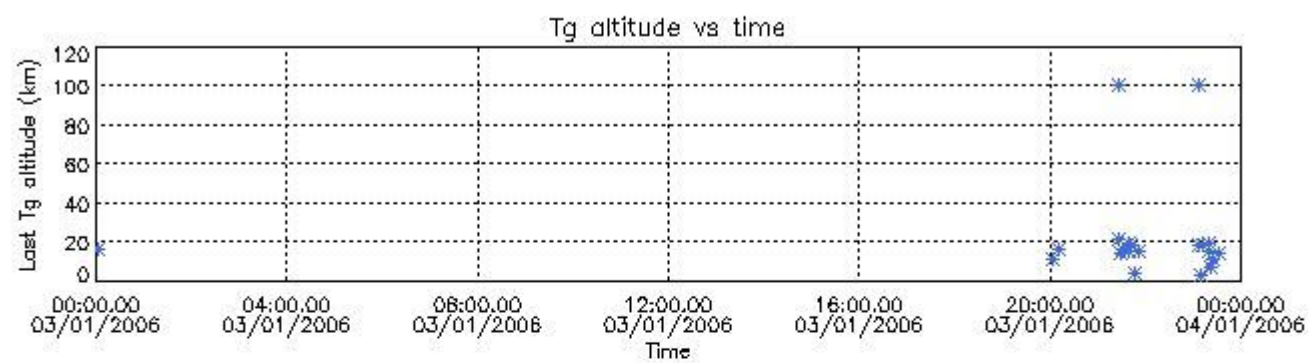
## 6. Statistics and plot of tangent altitude of the last measurement (DARK & BRIGHT products without errors)

### 6.1 Statistics on tangent altitude lost:

Statistics	DARK	BRIGHT	TWILIGHT
Mean:	22.687	14.260	13.848
St. deviation:	26.394	5.5653	5.7699
Maximum:	100.82	24.166	21.381
Minimum:	2.9527	5.4933	4.1001
Number of data:	21.000	18.000	11.000

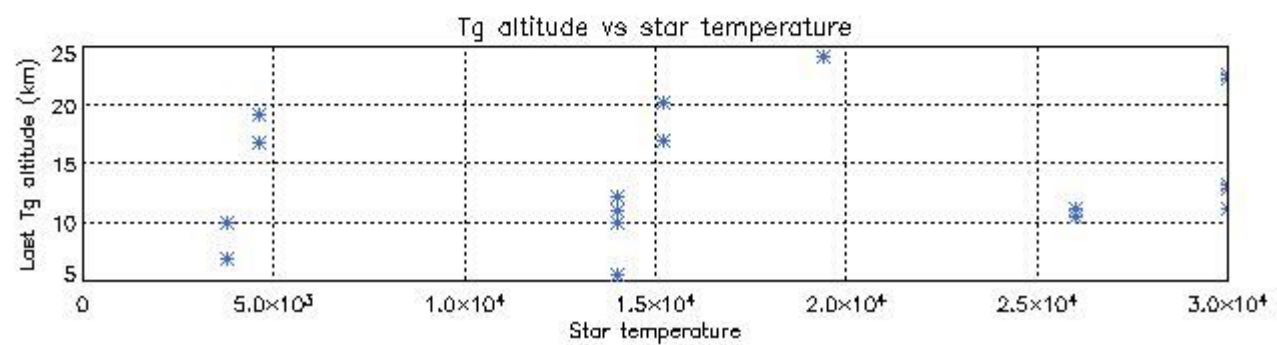
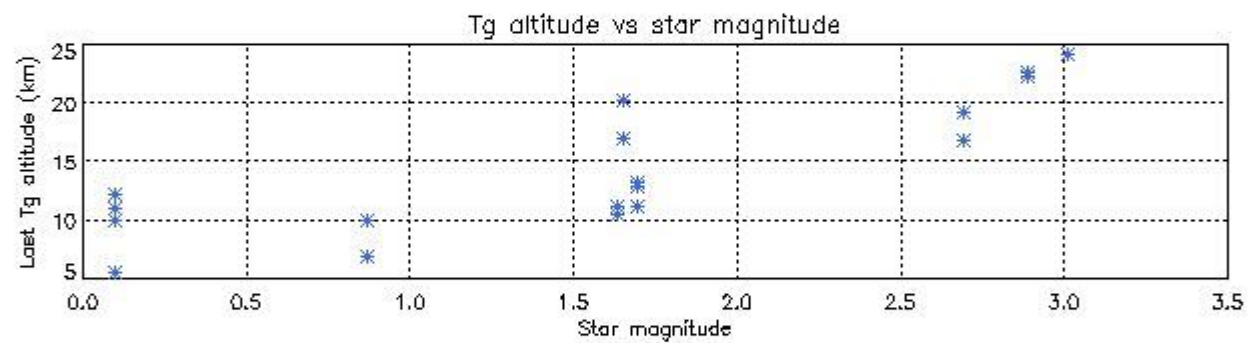
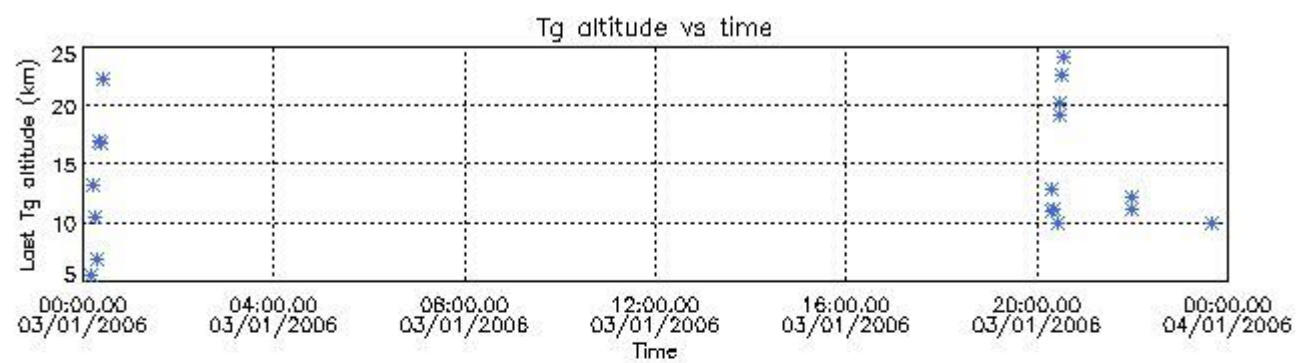
### 6.2 Plot for DARK limb products

Tangent altitude at which the star is lost



6.3 Plot for BRIGHT limb products

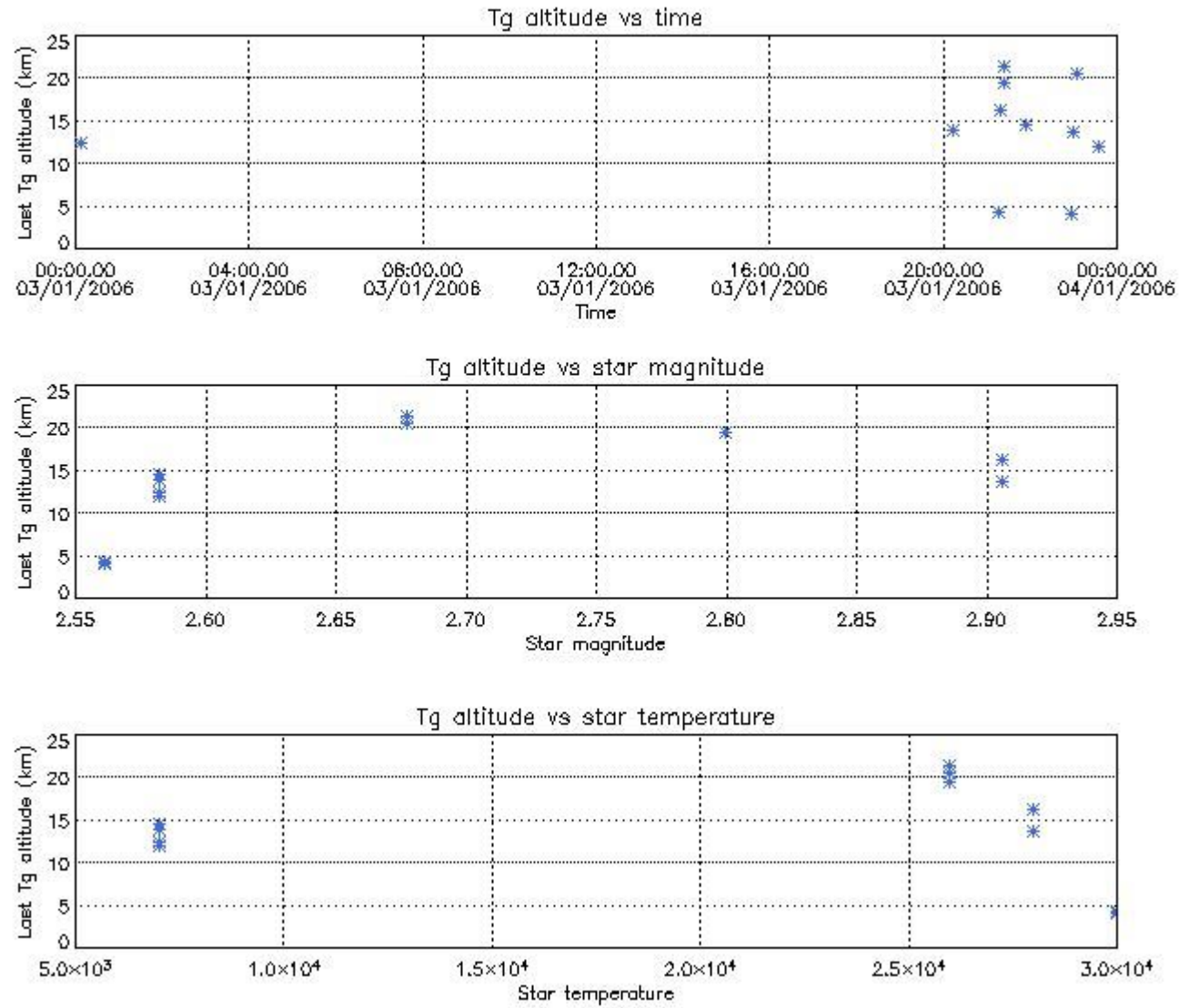
Tangent altitude at which the star is lost



6.3 Plot for TWILIGHT limb products



## Tangent altitude at which the star is lost



## 7. Statistics on SATU Noise Equivalent Angle (NEA) for DARK (D) and BRIGHT (B) products above 105 kms

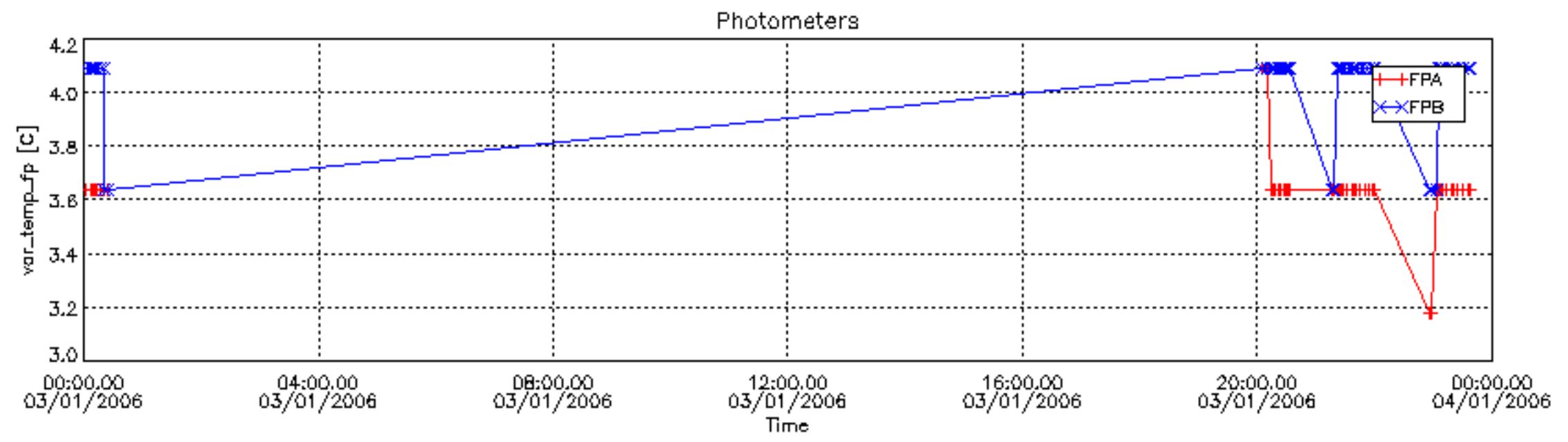
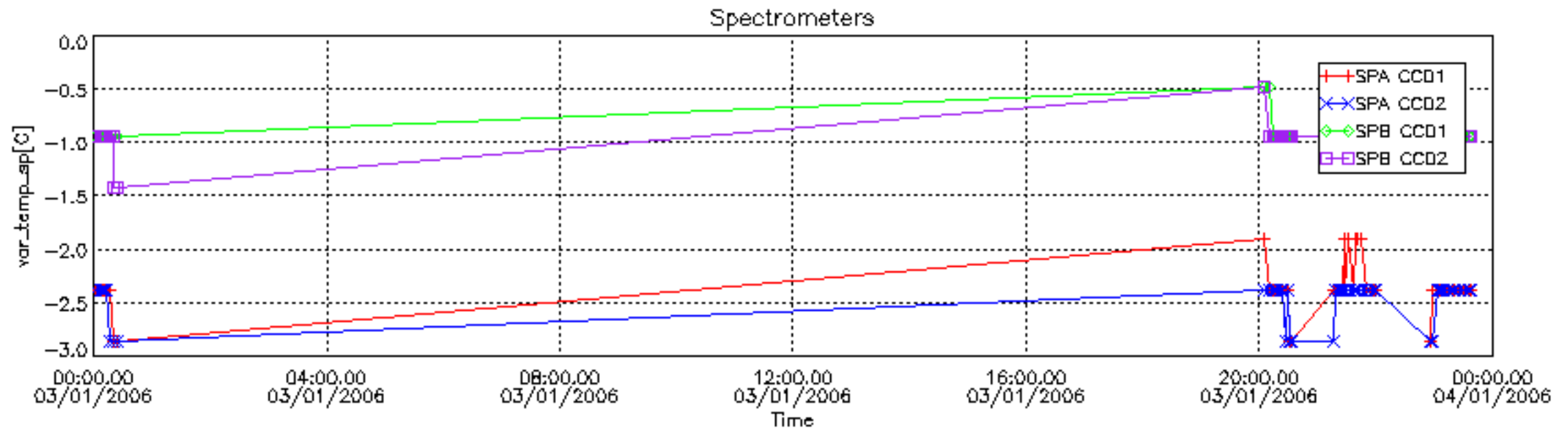
The Star Acquisition and Tracking Unit (it is the CCD that tracks the star while it is occulted) Noise Equivalent Angle consists of the statistical angular variation of the SATU data above the atmosphere. Statistics above 105 km are computed for every occultation, giving four values per occultation: one in the 'X' direction and one in the 'Y' direction for dark and bright limbs. A mean value per day in every direction and limb is calculated and monitored in order to assess instrument performance in terms of star pointing.

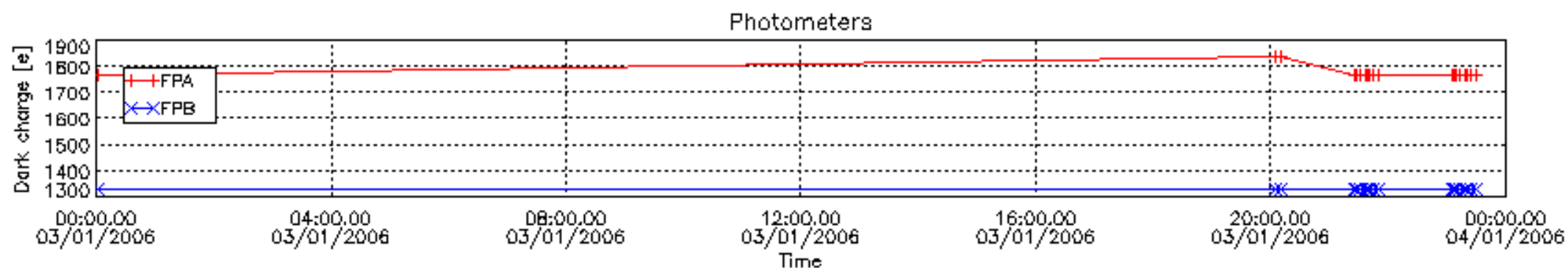
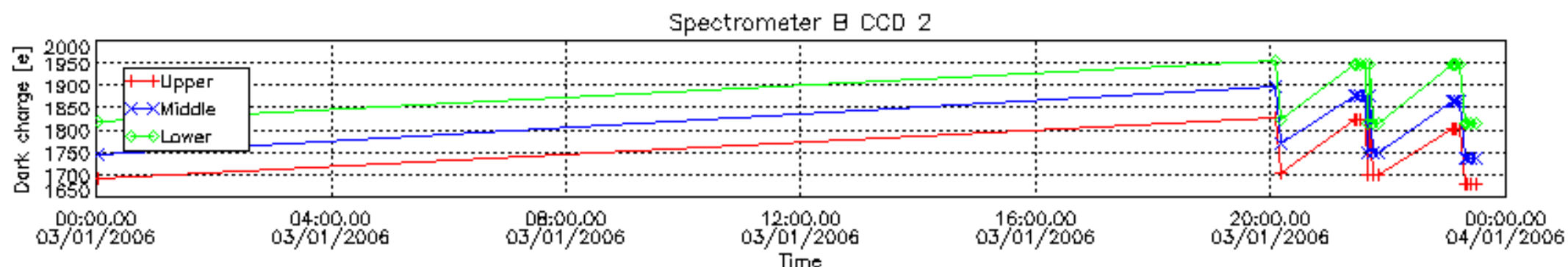
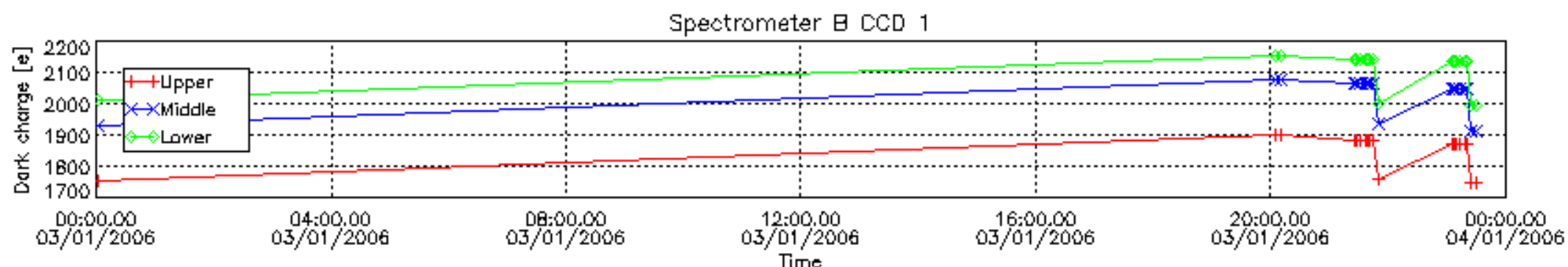
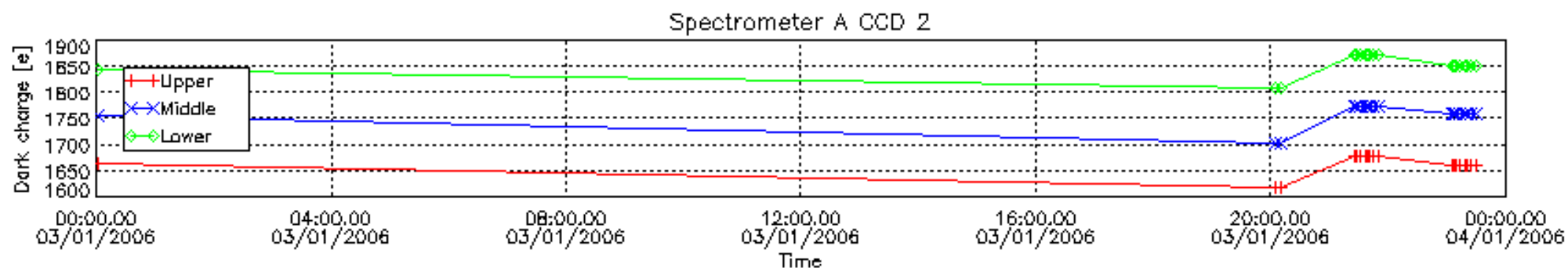
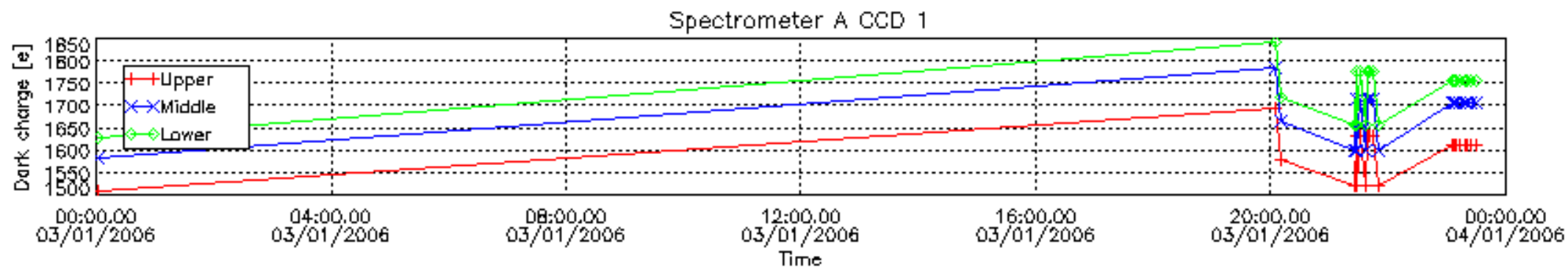
Statistics	SATU X (D)	SATU Y (D)	SATU X (B)	SATU Y (B)
Mean:	1460.7	1446.2	1460.4	1446.1
St. deviation:	5.0663	6.2671	5.5892	7.1268
Maximum:	1501.0	1483.0	1512.0	1502.0
Minimum:	1433.0	1420.0	1456.0	1430.0
Number of data:	18100.	18100.	14400.	14400.

## 8. Auxiliary Data Files used for the production reported in section 2.2

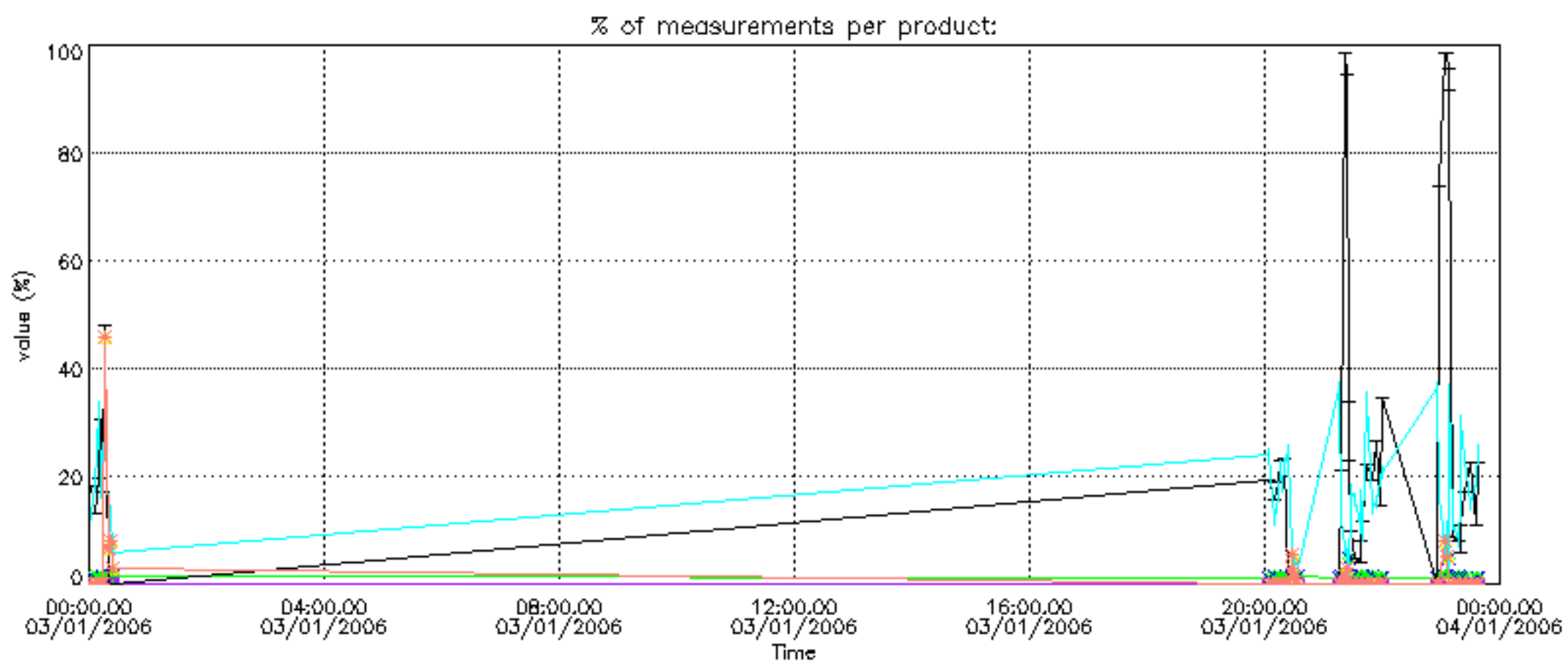
The number reported in the third column indicates since which file (see list in section 2.2) the corresponding auxiliary file has been used. The fourth column is the date of those product files.

Type	Auxiliary Filename	Used since product	Used since product date
INST_PHYS_CHARACTERISTICS	GOM_INS_AXVIEC20030716_105425_20030716_120000_20100101_000000	1	03-JAN-2006 00:02:12
CALIBRATION_DATABASE	GOM_CAL_AXVIEC20051220_153205_20051218_000000_20100101_000000	1	03-JAN-2006 00:02:12
LEVEL-1B_PROC_CONFIG	GOM_PR1_AXVIEC20040401_083133_20020324_200000_20100101_000000	1	03-JAN-2006 00:02:12
STAR_CATALOGUE	GOM_CAT_AXVIEC20020121_161009_20020101_000000_20200101_000000	1	03-JAN-2006 00:02:12
STELLAR_SPECTRA_DATABANK	GOM_STS_AXVIEC20020121_165822_20020101_000000_20200101_000000	1	03-JAN-2006 00:02:12
ECMWF_FILE	AUX_ECA_AXNECM20060103_065956_20060102_210000_20060103_090000	1	03-JAN-2006 00:02:12
ECMWF_FILE	AUX_ECF_AXNECM20060103_060012_20060103_150000_20060104_030000	10	03-JAN-2006 20:03:46
ECMWF_FILE	AUX_ECF_AXNECM20060103_060032_20060103_210000_20060104_090000	21	03-JAN-2006 21:15:50
OPTIONAL_ECMWF_FILE	NOT USED	1	03-JAN-2006 00:02:12
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060103_093011_20060102_183818_20060112_200430	1	03-JAN-2006 00:02:12
ORBIT_DATA_FILE	AUX_FPO_AXVPDS20060103_105016_20060103_094341_20060112_214506	10	03-JAN-2006 20:03:46
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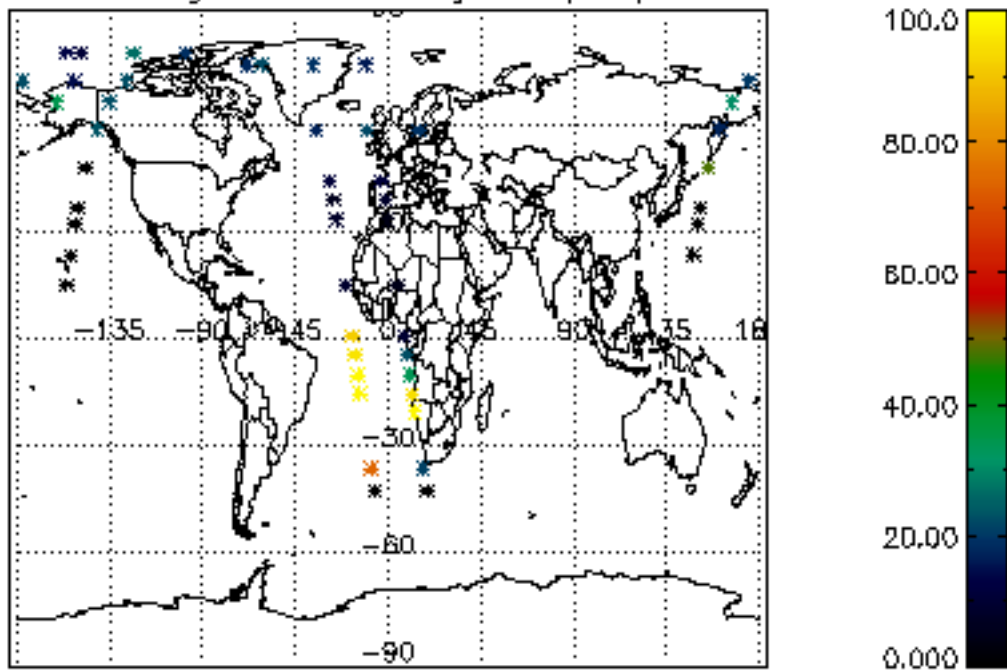




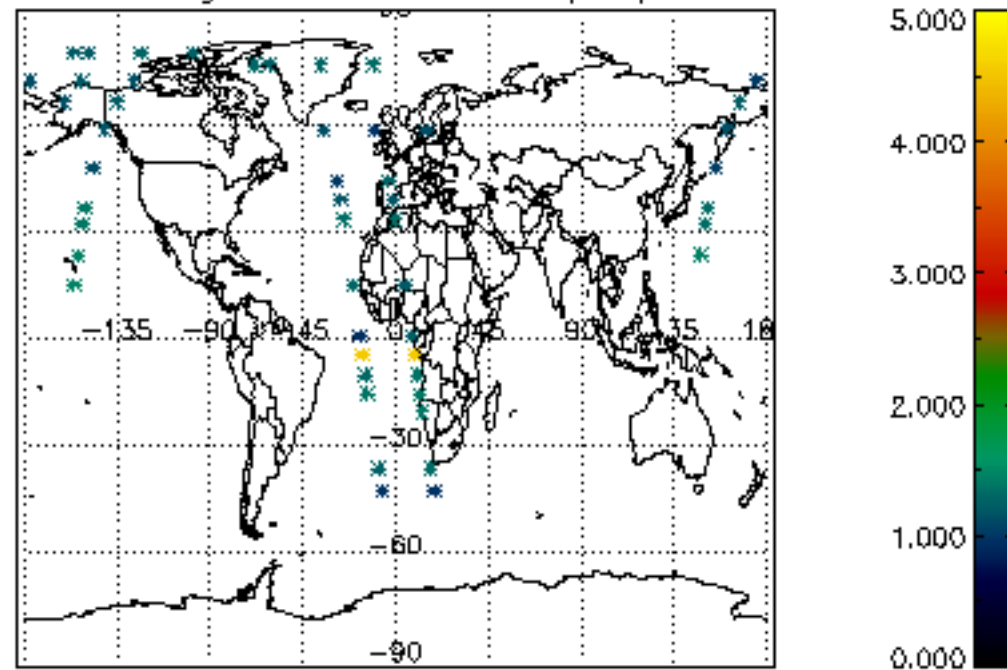




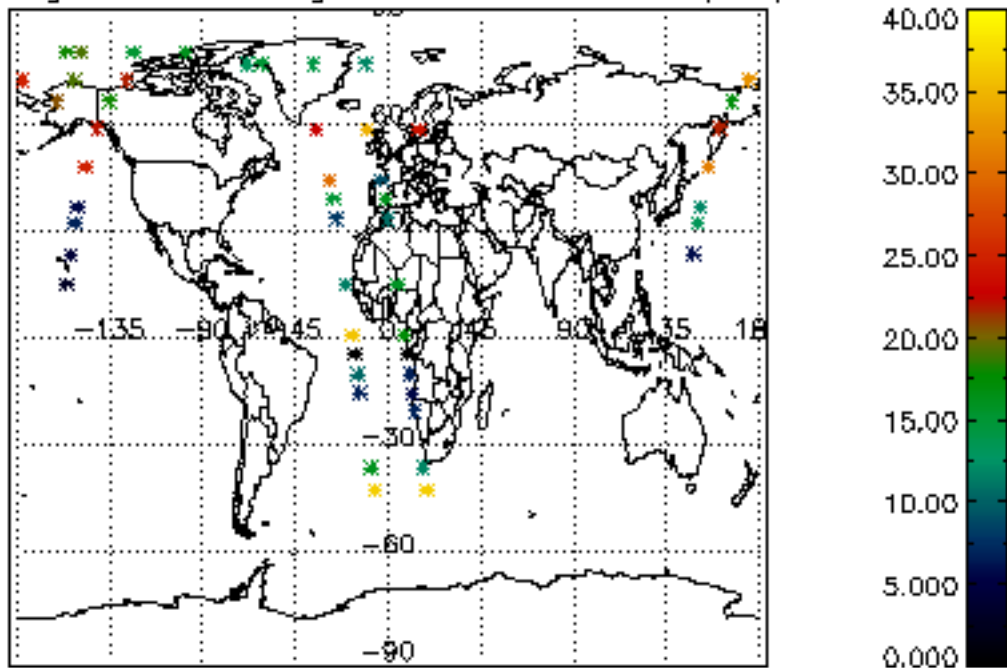
Percentage of cosmic ray hits per profile



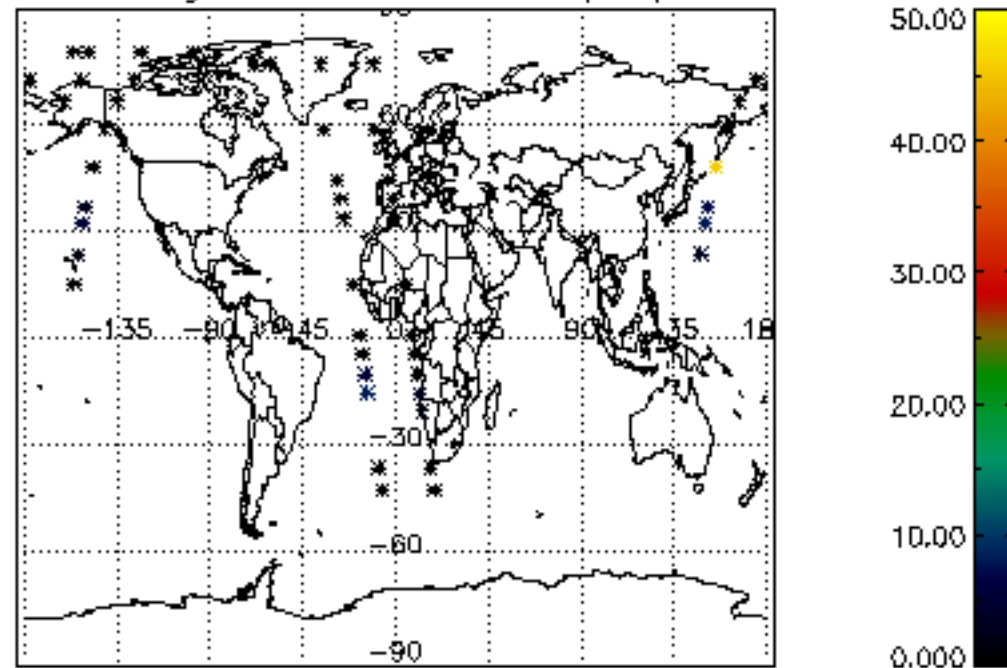
Percentage of datation errors per profile



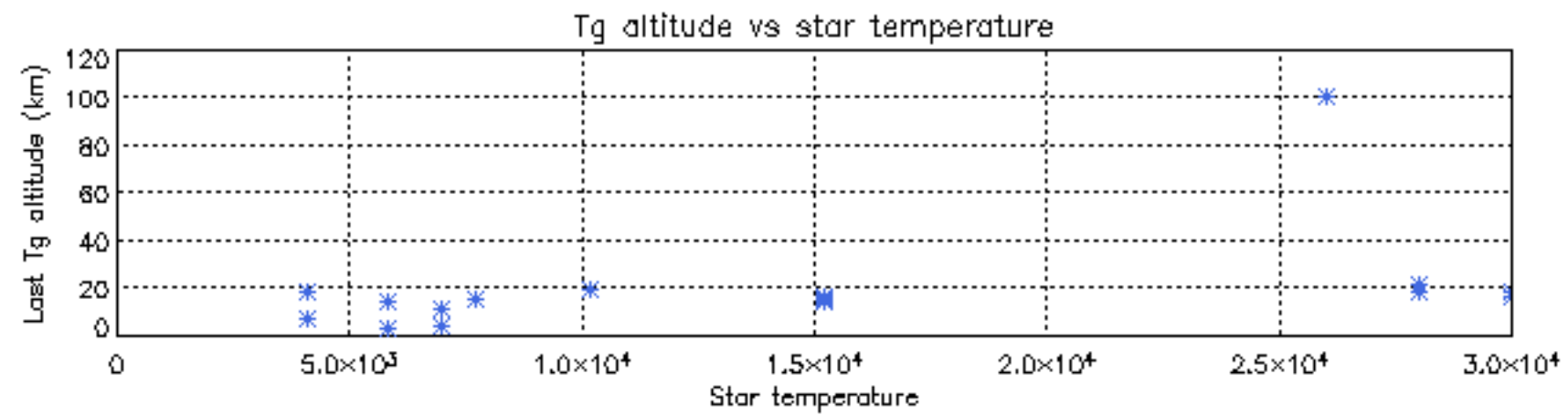
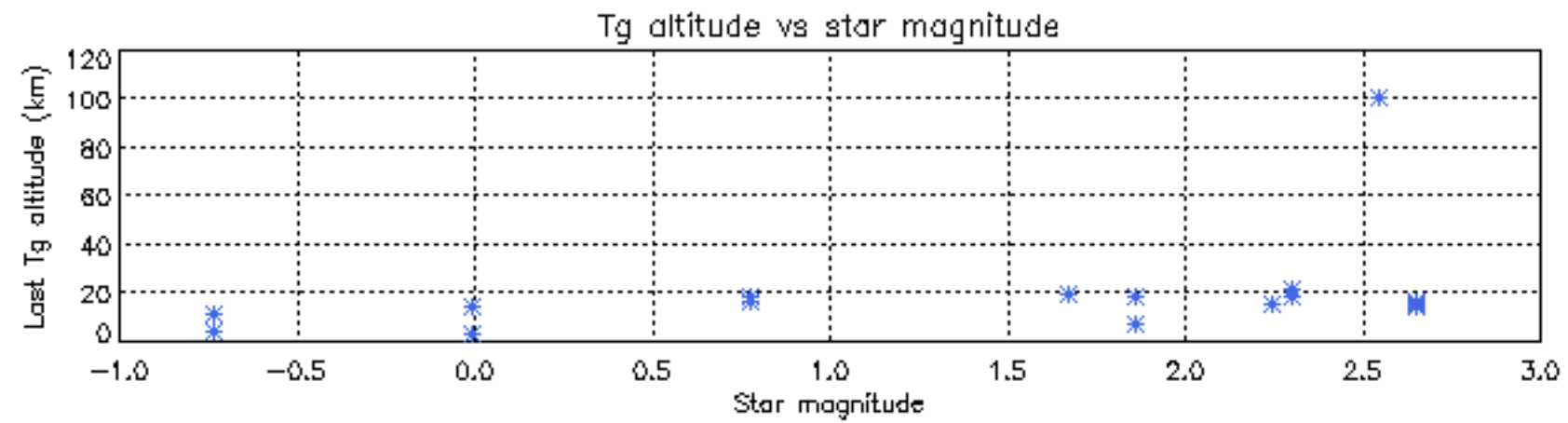
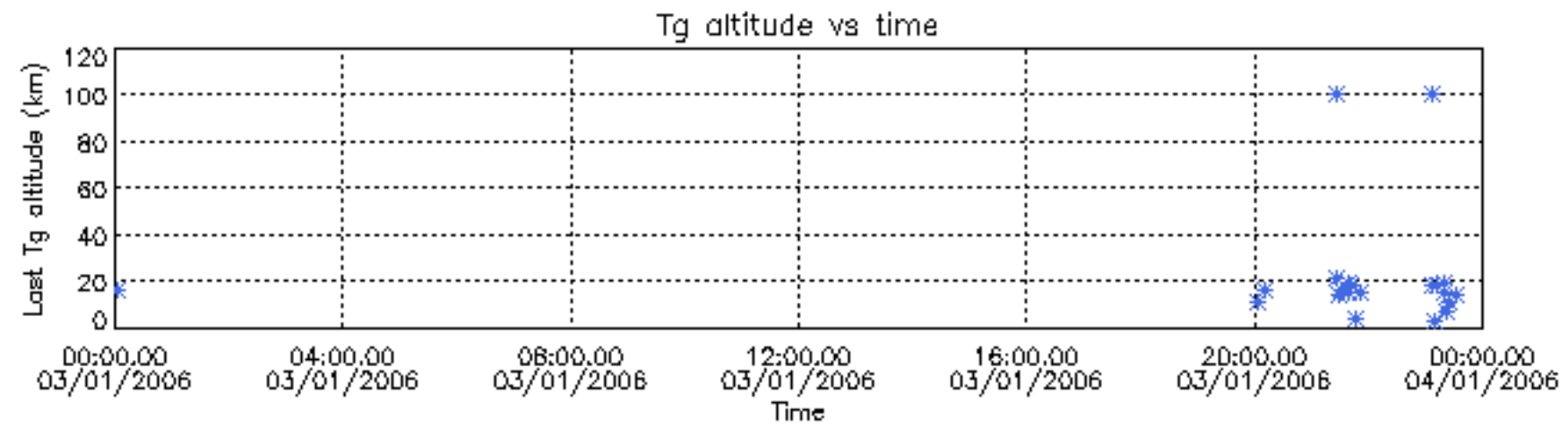
Percentage of star falling outside central band per profile



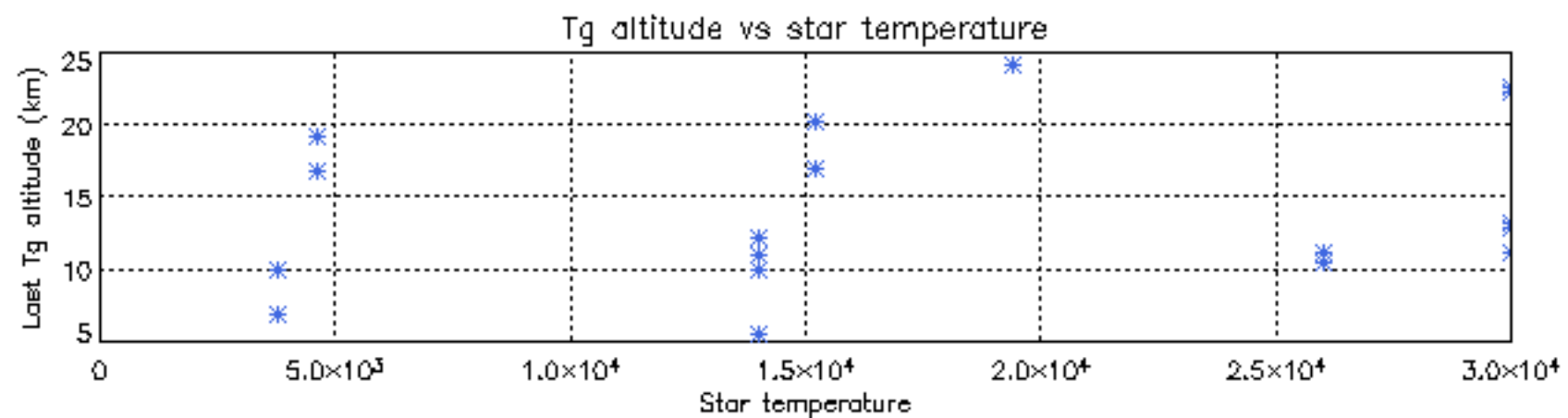
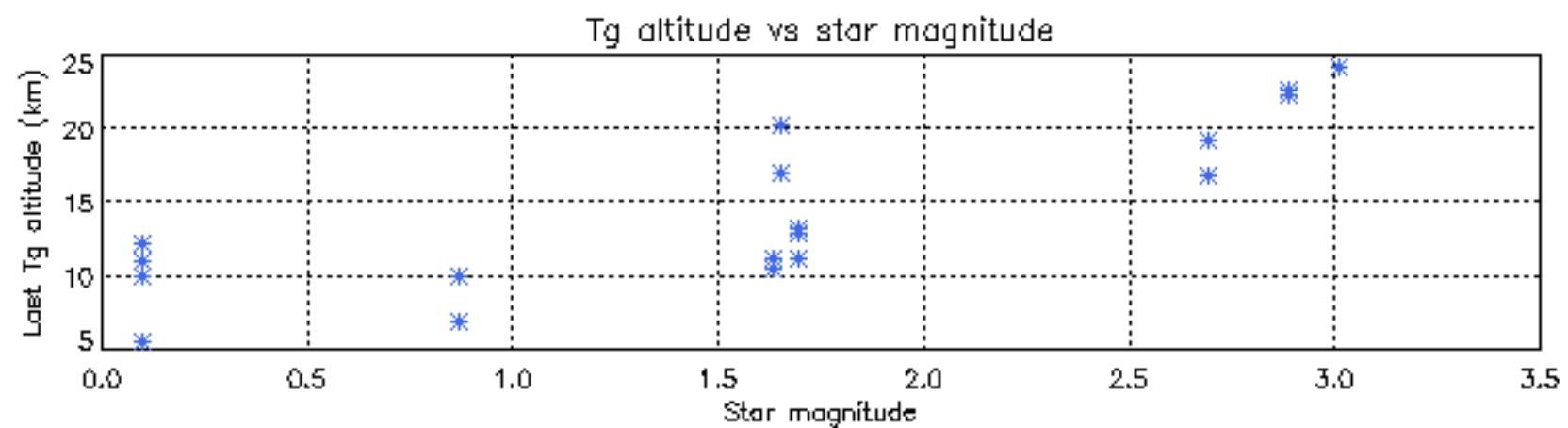
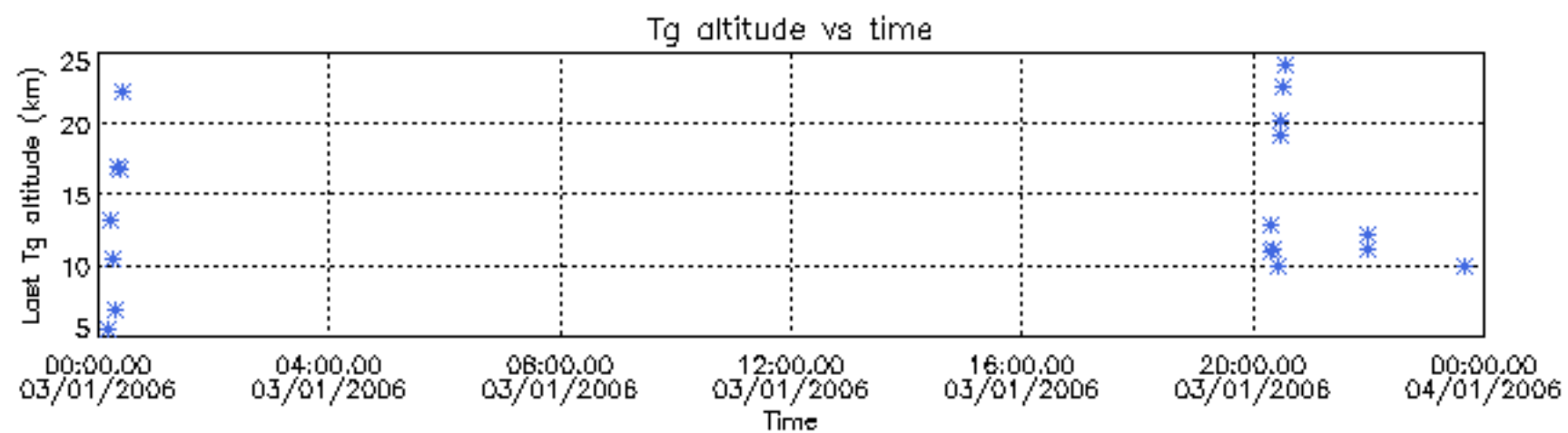
Percentage of saturation errors per profile



Tangent altitude at which the star is lost

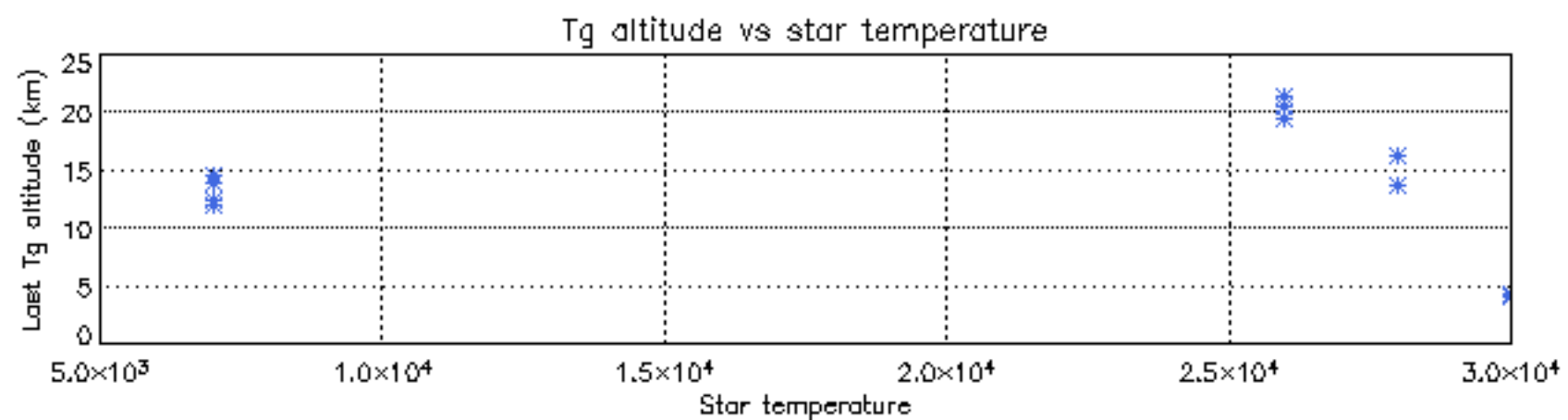
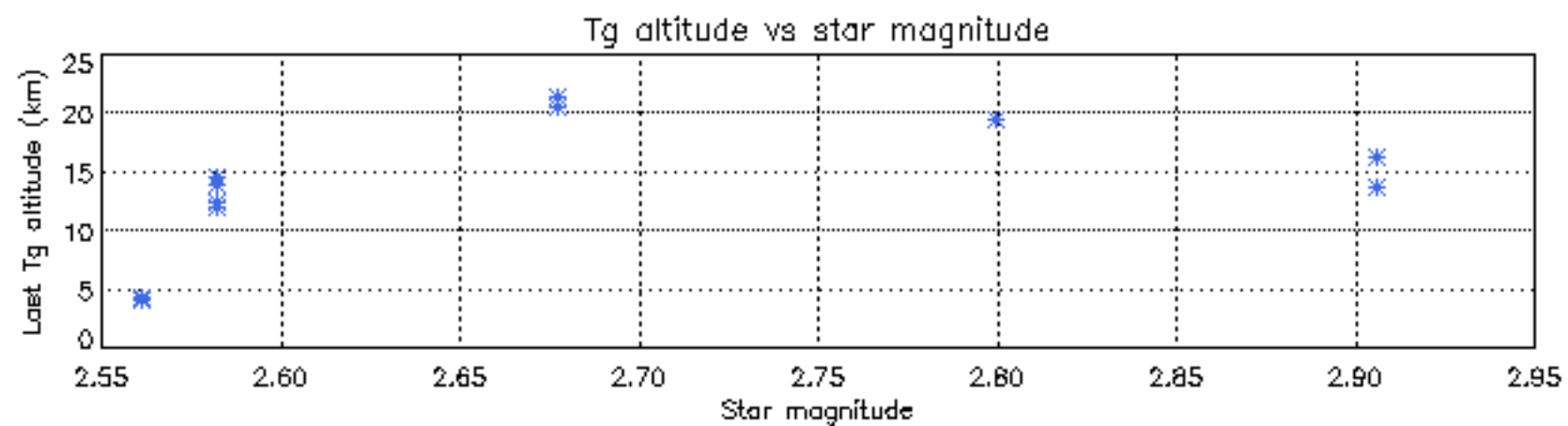
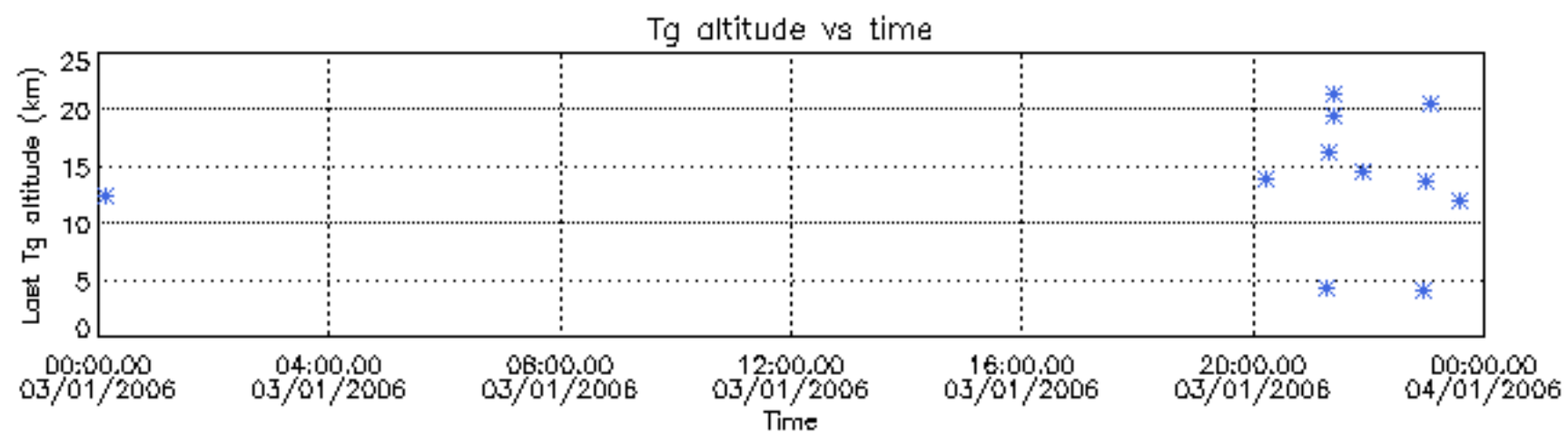


Tangent altitude at which the star is lost





Tangent altitude at which the star is lost



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 4; 5932.7; 01-JAN-2006 00:41:38; Dark ; 40.5; 95; Zet Cen ; 2.55; 26000;occ; 81; 0;20067  
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 7; 6435.8; 01-JAN-2006 00:50:01; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20067  
 8; 6583.6; 01-JAN-2006 00:52:29; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;20067  
 9; 6666.8; 01-JAN-2006 00:53:52; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;20067  
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 11; 7015.0; 01-JAN-2006 00:59:40; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;20067  
 12; 7357.0; 01-JAN-2006 01:05:22; Dark ; 40.5; 108; Alp Col ; 2.65; 15200;occ; 81; 0;20067  
 13; 7634.1; 01-JAN-2006 01:09:59; Dark ; 42.0; 101; 11Alp Lep ; 2.58; 7000;occ; 84; 0;20067  
 14; 7805.8; 01-JAN-2006 01:12:51; Dark ; 50.5; 7; 19Bet Ori ; 0.10; 14000;occ; 101; 0;20067  
 15; 7917.5; 01-JAN-2006 01:14:43; Dark ; 44.0; 30; 46Eps Ori ; 1.69; 30000;occ; 88; 0;20067  
 16; 8049.7; 01-JAN-2006 01:16:55; Dark ; 42.0; 27; 24Gam Ori ; 1.64; 26000;occ; 84; 0;20067  
 17; 8237.2; 01-JAN-2006 01:20:02; Dark ; 49.0; 13; 87Alp Tau ; 0.87; 3800;occ; 98; 0;20067  
 18; 8433.3; 01-JAN-2006 01:23:19; Bright; 37.5; 28; 12Bet Tau ; 1.65; 15200;occ; 75; 0;20067  
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 9; 12703.4; 01-JAN-2006 02:34:29; Dark ; 38.0; 71; Iot Car ; 2.25; 7700;occ; 76; 0;20068  
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 6; 2016.3; 03-JAN-2006 20:20:53; Dark ; 43.0; 27; 24Gam Ori ; 1.64; 26000;occ; 86; 0;20108  
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17; 5048.6; 05-JAN-2006 20:08:10; Bright; 37.0; 120; 1Del Oph ; 2.73; 3200;occ; 74; 0;20136  
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28; 7032.6; 05-JAN-2006 20:41:14; Dark ; 47.0; 2; Alp Car ;-0.74; 7000;occ; 94; 0;20136

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8; 6609.3; 06-JAN-2006 01:35:59; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;20139  
9; 6705.0; 06-JAN-2006 01:37:34; Dark ; 43.0; 71; Iot Car ; 2.25; 7700;occ; 86; 0;20139  
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 3; 4433.8; 06-JAN-2006 02:40:19; Bright; 34.5; 133; 40Zet Her ; 2.81; 6000;occ; 69; 0;20140  
 4; 4612.3; 06-JAN-2006 02:43:18; Bright; 36.5; 127; 27Bet Her ; 2.78; 4700;occ; 73; 0;20140  
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 9; 5880.0; 06-JAN-2006 03:04:25; Dark ; 39.5; 78; Alp Lup ; 2.30; 28000;occ; 79; 0;20140  
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 22; 2215.8; 06-JAN-2006 05:24:33; Bright; 52.0; 13; 87Alp Tau ; 0.87; 3800;occ; 104; 0;20142  
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27; 1336.5; 06-JAN-2006 15:13:29; Dark ; 40.0; 108; Alp Col ; 2.65; 15200;occ; 80; 0;20148

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13; 4062.3; 06-JAN-2006 17:39:31; Bright; 34.0; 130; 23Bet Dra ; 2.80; 5800;occ; 68; 0;20149  
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 23; 6459.9; 06-JAN-2006 18:19:29; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20149  
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 27; 7035.8; 06-JAN-2006 18:29:04; Dark ; 44.5; 2; Alp Car ; -0.74; 7000;occ; 89; 0;20149

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 23; 577.3; 06-JAN-2006 20:02:38; Dark ; 37.5; 29; Bet Car ; 1.67; 10200;occ; 75; 0;20151  
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25; 5346.2; 14-JAN-2006 12:29:06; Dark ; 38.0; 29; Bet Car ; 1.67; 10200;occ; 76; 0;20260
26; 5459.7; 14-JAN-2006 12:30:59; Dark ; 47.0; 71; Iot Car ; 2.25; 7700;occ; 94; 0;20260
27; 5535.9; 14-JAN-2006 12:32:15; Dark ; 46.0; 41; Eps Car ; 1.86; 4100;occ; 92; 0;20260
28; 5754.7; 14-JAN-2006 12:35:54; Dark ; 49.0; 2; Alp Car ; -0.74; 7000;occ; 98; 0;20260
29; 5966.2; 14-JAN-2006 12:39:26; Dark ; 43.0; 117; Pi Pup ; 2.71; 3800;occ; 86; 0;20260
30; 6120.4; 14-JAN-2006 12:42:00; Dark ; 40.5; 23; 21Eps CMA ; 1.50; 26000;occ; 81; 0;20260
31; 6205.9; 14-JAN-2006 12:43:25; Dark ; 24.0; 179; 240mi2CMA ; 3.03; 24000;occ; 48; 0;20260

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2;	340.0;	14-JAN-2006	12:45:39;	Dark	;	48.5;	1;	9Alp CMA	;	-1.44;	11000;occ;	97;	0;	20261
3;	489.1;	14-JAN-2006	12:48:09;	Dark	;	39.5;	56;	53Kap Ori	;	2.07;	30000;occ;	79;	0;	20261
4;	558.9;	14-JAN-2006	12:49:18;	Dark	;	37.5;	125;	44Tot Ori	;	2.77;	30000;occ;	75;	0;	20261
5;	636.6;	14-JAN-2006	12:50:36;	Dark	;	40.0;	30;	46Eps Ori	;	1.69;	30000;occ;	80;	0;	20261
6;	770.7;	14-JAN-2006	12:52:50;	Dark	;	46.0;	14;	58Alp Ori	;	0.87;	3000;occ;	92;	0;	20261
7;	1007.3;	14-JAN-2006	12:56:47;	Bright;		33.5;	176;	23Zet Tau	;	3.02;	22000;occ;	67;	0;	20261
8;	1136.1;	14-JAN-2006	12:58:56;	Bright;		35.0;	28;	12Bet Tau	;	1.65;	15200;occ;	70;	0;	20261
9;	1230.1;	14-JAN-2006	13:00:30;	Bright;		37.5;	114;	3Tot Aur	;	2.69;	4600;occ;	75;	0;	20261
10;	1405.6;	14-JAN-2006	13:03:25;	Bright;		36.0;	42;	34Bet Aur	;	1.90;	10200;occ;	72;	0;	20261
11;	2158.1;	14-JAN-2006	13:15:58;	Bright;		34.0;	49;	1Alp UMi	;	1.99;	6300;occ;	68;	0;	20261
12;	2808.5;	14-JAN-2006	13:26:48;	Bright;		35.5;	130;	23Bet Dra	;	2.80;	5800;occ;	71;	0;	20261
13;	3184.8;	14-JAN-2006	13:33:04;	Bright;		36.5;	133;	40Zet Her	;	2.81;	6000;occ;	73;	0;	20261
14;	3472.8;	14-JAN-2006	13:37:52;	Bright;		33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	20261
15;	3825.6;	14-JAN-2006	13:43:45;	Bright;		38.0;	120;	1Del Oph	;	2.73;	3200;occ;	76;	0;	20261
16;	3908.4;	14-JAN-2006	13:45:08;	Bright;		53.0;	98;	13Zet Oph	;	2.57;	30000;occ;	106;	0;	20261
17;	4175.7;	14-JAN-2006	13:49:35;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;occ;	106;	0;	20261
18;	4278.7;	14-JAN-2006	13:51:18;	Dark	;	40.5;	75;	26Eps Sco	;	2.29;	4250;occ;	81;	0;	20261
19;	4488.9;	14-JAN-2006	13:54:48;	Dark	;	38.0;	131;	Gam Lup	;	2.80;	26000;occ;	76;	0;	20261
20;	4592.4;	14-JAN-2006	13:56:32;	Dark	;	39.5;	109;	Bet Lup	;	2.68;	26000;occ;	79;	0;	20261
21;	4683.1;	14-JAN-2006	13:58:03;	Dark	;	39.0;	78;	Alp Lup	;	2.30;	28000;occ;	78;	0;	20261
22;	4783.6;	14-JAN-2006	13:59:43;	Dark	;	36.5;	134;	Bet TrA	;	2.81;	6600;occ;	73;	0;	20261
23;	4897.2;	14-JAN-2006	14:01:37;	Dark	;	40.0;	10;	Bet Cen	;	0.61;	28000;occ;	80;	0;	20261
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25;	5298.3;	14-JAN-2006	14:08:18;	Dark	;	38.0;	124;	The Car	;	2.76;	30000;occ;	76;	0;	20261
26;	5382.4;	14-JAN-2006	14:09:42;	Dark	;	37.0;	29;	Bet Car	;	1.67;	10200;occ;	74;	0;	20261
27;	5496.2;	14-JAN-2006	14:11:36;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	20261
28;	5572.1;	14-JAN-2006	14:12:52;	Dark	;	45.5;	41;	Eps Car	;	1.86;	4100;occ;	91;	0;	20261
29;	5790.8;	14-JAN-2006	14:16:30;	Dark	;	49.0;	2;	Alp Car	;	-0.74;	7000;occ;	98;	0;	20261
30;	6002.4;	14-JAN-2006	14:20:02;	Dark	;	41.5;	117;	Pi Pup	;	2.71;	3800;occ;	83;	0;	20261
31;	6156.5;	14-JAN-2006	14:22:36;	Dark	;	44.5;	23;	21Eps CMA	;	1.50;	26000;occ;	89;	0;	20261
32;	6242.0;	14-JAN-2006	14:24:02;	Dark	;	13.5;	179;	240mi2CMA	;	3.03;	24000;occ;	27;	0;	20261

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2;	362.0;	14-JAN-2006	14:24:02;	Dark	;	38.0;	179;	240mi2CMA	;	3.03;	24000;occ;	76;	0;	20262
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4;	645.1;	14-JAN-2006	14:28:45;	Dark	;	40.5;	56;	53Kap Ori	;	2.07;	30000;occ;	81;	0;	20262
5;	715.1;	14-JAN-2006	14:29:55;	Dark	;	38.0;	125;	44Tot Ori	;	2.77;	30000;occ;	76;	0;	20262
6;	792.8;	14-JAN-2006	14:31:12;	Dark	;	39.5;	30;	46Eps Ori	;	1.69;	30000;occ;	79;	0;	20262
7;	926.7;	14-JAN-2006	14:33:26;	Dark	;	46.0;	14;	58Alp Ori	;	0.87;	3000;occ;	92;	0;	20262
8;	1163.3;	14-JAN-2006	14:37:23;	Bright;		35.5;	176;	23Zet Tau	;	3.02;	22000;occ;	71;	0;	20262
9;	1292.2;	14-JAN-2006	14:39:32;	Bright;		37.5;	28;	12Bet Tau	;	1.65;	15200;occ;	75;	0;	20262
10;	1386.2;	14-JAN-2006	14:41:06;	Bright;		36.5;	114;	3Tot Aur	;	2.69;	4600;occ;	73;	0;	20262
11;	1561.6;	14-JAN-2006	14:44:01;	Bright;		35.0;	42;	34Bet Aur	;	1.90;	10200;occ;	70;	0;	20262
12;	2314.1;	14-JAN-2006	14:56:34;	Bright;		33.5;	49;	1Alp UMi	;	1.99;	6300;occ;	67;	0;	20262
13;	2964.6;	14-JAN-2006	15:07:24;	Bright;		36.5;	130;	23Bet Dra	;	2.80;	5800;occ;	73;	0;	20262
14;	3340.8;	14-JAN-2006	15:13:40;	Bright;		35.0;	133;	40Zet Her	;	2.81;	6000;occ;	70;	0;	20262
15;	3629.0;	14-JAN-2006	15:18:28;	Bright;		33.0;	59;	55Alp Oph	;	2.08;	8900;occ;	66;	0;	20262
16;	3982.0;	14-JAN-2006	15:24:21;	Bright;		19.0;	120;	1Del Oph	;	2.73;	3200;occ;	38;	0;	20262
17;	4064.8;	14-JAN-2006	15:25:44;	Bright;		53.0;	98;	13Zet Oph	;	2.57;	30000;occ;	106;	0;	20262
18;	4332.1;	14-JAN-2006	15:30:12;	Dark	;	53.0;	16;	21Alp Sco	;	1.02;	3000;occ;	106;	0;	20262
19;	4434.9;	14-JAN-2006	15:31:54;	Dark	;	41.0;	75;	26Eps Sco	;	2.29;	4250;occ;	82;	0;	20262
20;	4645.4;	14-JAN-2006	15:35:25;	Dark	;	39.0;	131;	Gam Lup	;	2.80;	26000;occ;	78;	0;	20262
21;	4749.1;	14-JAN-2006	15:37:09;	Dark	;	37.0;	109;	Bet Lup	;	2.68;	26000;occ;	74;	0;	20262
22;	4839.6;	14-JAN-2006	15:38:39;	Dark	;	40.0;	78;	Alp Lup	;	2.30;	28000;occ;	80;	0;	20262
23;	4940.0;	14-JAN-2006	15:40:19;	Dark	;	37.0;	134;	Bet TrA	;	2.81;	6600;occ;	74;	0;	20262
24;	5053.6;	14-JAN-2006	15:42:13;	Dark	;	40.5;	10;	Bet Cen	;	0.61;	28000;occ;	81;	0;	20262
25;	5200.6;	14-JAN-2006	15:44:40;	Dark	;	59.5;	0;		;	0.00;	0;occ;	119;	0;	20262
26;	5454.7;	14-JAN-2006	15:48:54;	Dark	;	37.5;	124;	The Car	;	2.76;	30000;occ;	75;	0;	20262
27;	5538.7;	14-JAN-2006	15:50:18;	Dark	;	38.0;	29;	Bet Car	;	1.67;	10200;occ;	76;	0;	20262
28;	5652.5;	14-JAN-2006	15:52:12;	Dark	;	38.5;	71;	Iot Car	;	2.25;	7700;occ;	77;	0;	20262
29;	5728.4;	14-JAN-2006	15:53:28;	Dark	;	47.0;	41;	Eps Car	;	1.86;	4100;occ;	94;	0;	20262
30;	5946.9;	14-JAN-2006	15:57:06;	Dark	;	44.0;	2;	Alp Car	;	-0.74;	7000;occ;	88;	0;	20262
31;	6158.7;	14-JAN-2006	16:00:38;	Dark	;	40.5;	117;	Pi Pup	;	2.71;	3800;occ;	81;	0;	20262

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6; 751.3; 14-JAN-2006 16:10:31; Dark ; 38.5; 125; 44Iot Ori ; 2.77; 30000;occ; 77; 0;20263
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8; 962.7; 14-JAN-2006 16:14:02; Dark ; 52.0; 14; 58Alp Ori ; 0.87; 3000;occ; 104; 0;20263
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15; 3376.9; 14-JAN-2006 16:54:16; Bright; 54.0; 133; 40Zet Her ; 2.81; 6000;occ; 108; 0;20263
16; 3665.1; 14-JAN-2006 16:59:05; Bright; 33.0; 59; 55Alp Oph ; 2.08; 8900;occ; 66; 0;20263
17; 4018.4; 14-JAN-2006 17:04:58; Bright; 19.0; 120; 1Del Oph ; 2.73; 3200;occ; 38; 0;20263
18; 4101.1; 14-JAN-2006 17:06:21; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;20263
19; 4368.4; 14-JAN-2006 17:10:48; Dark ; 50.5; 16; 21Alp Sco ; 1.02; 3000;occ; 101; 0;20263
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21; 4681.8; 14-JAN-2006 17:16:01; Dark ; 38.5; 131; Gam Lup ; 2.80; 26000;occ; 77; 0;20263
22; 4785.6; 14-JAN-2006 17:17:45; Dark ; 37.0; 109; Bet Lup ; 2.68; 26000;occ; 74; 0;20263
23; 4876.3; 14-JAN-2006 17:19:16; Dark ; 40.0; 78; Alp Lup ; 2.30; 28000;occ; 80; 0;20263
24; 4976.1; 14-JAN-2006 17:20:56; Dark ; 36.0; 134; Bet TrA ; 2.81; 6600;occ; 72; 0;20263
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26; 5236.9; 14-JAN-2006 17:25:16; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20263
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29; 5688.9; 14-JAN-2006 17:32:48; Dark ; 41.5; 71; Iot Car ; 2.25; 7700;occ; 83; 0;20263
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9; 1298.8; 14-JAN-2006 17:54:38; Dark ; 48.5; 14; 58Alp Ori ; 0.87; 3000;occ; 97; 0;20264
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17; 4001.2; 14-JAN-2006 18:39:41; Bright; 33.5; 59; 55Alp Oph ; 2.08; 8900;occ; 67; 0;20264
18; 4437.4; 14-JAN-2006 18:46:57; Bright; 53.0; 98; 13Zet Oph ; 2.57; 30000;occ; 106; 0;20264
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24; 5312.3; 14-JAN-2006 19:01:32; Dark ; 36.0; 134; Bet TrA ; 2.81; 6600;occ; 72; 0;20264
25; 5426.6; 14-JAN-2006 19:03:26; Dark ; 47.0; 10; Bet Cen ; 0.61; 28000;occ; 94; 0;20264
26; 5573.1; 14-JAN-2006 19:05:53; Dark ; 59.5; 0; ; 0.00; 0;occ; 119; 0;20264
27; 5827.8; 14-JAN-2006 19:10:07; Dark ; 38.0; 124; The Car ; 2.76; 30000;occ; 76; 0;20264
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4; 830.6; 14-JAN-2006 19:25:50; Dark ; 40.5; 179; 240mi2CMA ; 3.03; 24000;occ; 81; 0;20265
5; 964.4; 14-JAN-2006 19:28:04; Dark ; 44.0; 1; 9Alp CMA ; -1.44; 11000;occ; 88; 0;20265
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7; 1183.6; 14-JAN-2006 19:31:43; Dark ; 38.0; 125; 44Iot Ori ; 2.77; 30000;occ; 76; 0;20265

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 23; 6909.8; 20-JAN-2006 12:44:56; Dark ; 45.5; 46; Del Vel ; 1.95; 10600;occ; 91; 0;20346  
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23; 2672.2; 19-JAN-2006 22:09:31; Bright; 35.5; 42; 34Bet Aur ; 1.90; 10200;occ; 71; 0;20338  
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6;-3469.5; 31-JAN-2006 12:27:11; Bright; 36.5; 107; 37The Aur ; 2.65; 11000;occ; 73; 0;20504
7;-3344.2; 31-JAN-2006 12:29:16; Bright; 36.0; 42; 34Bet Aur ; 1.90; 10200;occ; 72; 0;20504
8;-2607.9; 31-JAN-2006 12:41:32; Bright; 34.5; 49; 1Alp UMi ; 1.99; 6300;occ; 69; 0;20504
9;-1936.0; 31-JAN-2006 12:52:44; Bright; 38.0; 69; 33Gam Dra ; 2.23; 3800;occ; 76; 0;20504
10;-1731.8; 31-JAN-2006 12:56:08; Bright; 36.0; 5; 3Alp Lyr ; 0.03; 11000;occ; 72; 0;20504
11;-1332.2; 31-JAN-2006 13:02:48; Bright; 2.0; 168; 17Zet Aql ; 2.99; 11000;occ; 4; 0;20504
12;-1240.1; 31-JAN-2006 13:04:20; Bright; 36.0; 59; 55Alp Oph ; 2.08; 8900;occ; 72; 0;20504
13;-1112.4; 31-JAN-2006 13:06:28; Bright; 35.5; 126; 60Bet Oph ; 2.77; 4250;occ; 71; 0;20504
14; -724.9; 31-JAN-2006 13:12:55; Dark ; 44.0; 86; 35Eta Oph ; 2.43; 10200;occ; 88; 0;20504
15; -560.4; 31-JAN-2006 13:15:40; Dark ; 40.5; 167; 10Gam2Sgr ; 2.98; 4500;occ; 81; 0;20504
16; -420.6; 31-JAN-2006 13:18:00; Dark ; 37.0; 25; 35Lam Sco ; 1.62; 28000;occ; 74; 0;20504
17; -332.0; 31-JAN-2006 13:19:28; Dark ; 45.0; 40; The Sco ; 1.86; 7100;occ; 90; 0;20504
18; -218.8; 31-JAN-2006 13:21:21; Dark ; 35.5; 147; Alp Ara ; 2.88; 26000;occ; 71; 0;20504
19; -125.2; 31-JAN-2006 13:22:55; Dark ; 39.5; 141; Bet Ara ; 2.84; 4600;occ; 79; 0;20504
20; 107.3; 31-JAN-2006 13:26:48; Dark ; 38.0; 43; Alp TrA ; 1.91; 4250;occ; 76; 0;20505
21; 191.7; 31-JAN-2006 13:28:12; Dark ; 41.5; 4; Alp1Cen ; -0.01; 5800;occ; 83; 0;20505
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24; 681.1; 31-JAN-2006 13:36:21; Dark ; 36.5; 29; Bet Car ; 1.67; 10200;occ; 73; 0;20505
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29; 1287.1; 31-JAN-2006 13:46:27; Dark ; 44.0; 117; Pi Pup ; 2.71; 3800;occ; 88; 0;20505
30; 1433.3; 31-JAN-2006 13:48:54; Dark ; 42.5; 23; 21Eps CMA ; 1.50; 26000;occ; 85; 0;20505
31; 1516.1; 31-JAN-2006 13:50:16; Dark ; 38.5; 179; 240mi2CMA ; 3.03; 24000;occ; 77; 0;20505

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